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U.S. Department of Energy

2006 NATIONAL SCIENCE BOWL®

APRIL 27 – MAY 1, 2006

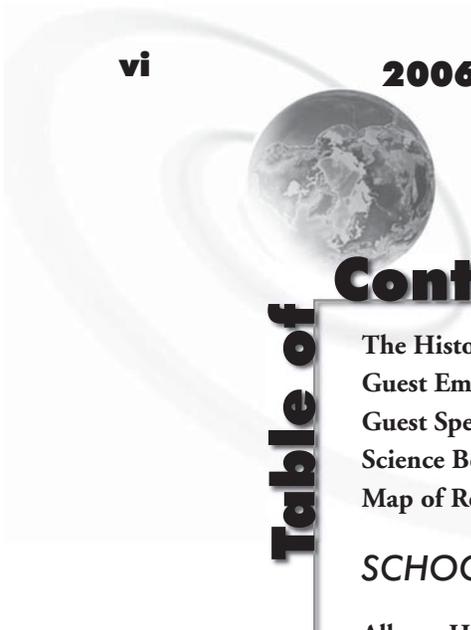


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When you begin to approach the speed of light, hydrogen atoms become cosmic-ray particles, and they will fry the crew. ...So 60,000 kilometers per second may be the *practical* speed limit for space travel.

Isaac Asimov
(1920 – 1992)

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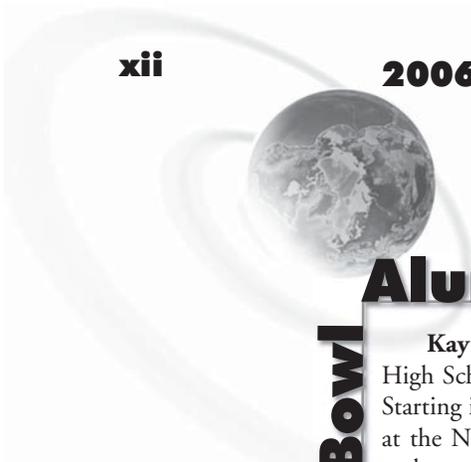
...man will occasionally
stumble over the truth,
but usually manages to
pick himself up, walk over
or around it, and carry
on.

Winston Spencer
Churchill
(1874 – 1965)

ACKNOWLEDGMENTS

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Science Bowl

Alumni

Kay Aull attended Thomas Jefferson High School for Science and Technology. Starting in 2001, she represented Virginia at the NSB four times, won three times, and captained her team twice. She is now attending MIT, where she is among the first class of bioengineering majors, and hopes to someday earn a M.D./Ph.D. in synthetic biology research.

Jeff Daulton is a junior in electrical engineering at The Ohio State University. As a member of the Centerville High School team, he participated in National Science Bowl® in 2002 and 2003, earning a trip to London, England in 2003. While in high school, he participated in turbine engine research at the Air Force Research Laboratory. He tries to divide his time in a fairly even manner between classes, roughly half a dozen Si/SiGe nanoelectronics research projects (including three novel devices), and of course sleeping.

Andrew Day is an alumnus from 2003 from Enterprise High School. He is presently at Shasta Community College, majoring in mechanical engineering and will be at San Jose State University next fall. He earns his living presently as a for-profit mathematics tutor servicing the Redding, CA area, and has been, until recently, the metric conversion guy for a local construction company. Having immensely enjoyed his original stay at NSB, he is now dedicated to making this competition as fondly remembered as his own.

Kevin Dick attended Woodinville High School and participated in the National Science Bowl® in 2003 and 2004. Currently a sophomore at Caltech, he plans to major in math or computer science. Looking forward to an exciting weekend and a much-needed extension on midterms, Kevin returns as an alumni official to this year's NSB.

Doug Fuller graduated from Ankeny High School in Ankeny, IA, in 1999, competing for the school at the 1999 National Science Bowl®. He attended Iowa State University in Ames, IA, earning his Bachelor's degree in computer science in 2002, followed by a Master's degree in 2005. While attending Iowa State, Doug worked at DOE's Ames Laboratory in the Scalable Computing Laboratory performing research in high-performance computing and computational science. Doug currently attends the University of North Texas in Denton, TX, where he is pursuing a Ph.D. He is also full-time staff member at the University's computing center, providing high-performance computing services to university researchers. His current research areas include computational epidemiology and high-performance visualization.

Jenica Jacobi was on the team from Albuquerque Academy (New Mexico) in 1998. She earned a B.S. in biology and a B.A. in chemistry from the University of New Mexico in 2002. Jenica went on to complete her M.B.A. and J.D. in 2005. She is currently finishing a legal internship at Sandia National Laboratories and seeking other employment, probably as an attorney. She holds a license in the state of New Mexico.

Dean Jens competed for Ankeny (IA) High School in the first three Science Bowls in 1991–1993; his team placed second in the region in 1991, but made it to the national tournament in 1992 and 1993, placing second in 1993. He then earned a Bachelor's degree in math and physics from the University of Chicago and a Master's in physics from Princeton University before leaving the academic world. He worked as a computer programmer in Chicago before moving to New York City, where he does mathematical modeling of financial markets to price over-the-counter derivatives.

The difficulty lies, not
in the new ideas, but in
escaping the old ones,
which ramify, for those
brought up as most
of us have been, into
every corner of
our minds.

John Maynard Keynes
(1883 – 1946)

Science Bowl

Alumni (continued)

Troy Kuersten attended Enterprise High School from 1999 to 2003, going to the National Science Bowl® in 2001, 2002, and as team captain in 2003. He is currently a junior at California Polytechnic State University, San Luis Obispo where he studies aerospace engineering. His current area of research is liquid fuel injectors and simplex swirl atomizers.

Timothy Liggett went to Venice High School and was on the first Venice High team to ever make it to Nationals in 1993. He attended Harvey Mudd College and graduated in 1997 with a B.S. in physics. Since then, he has been a high school physics teacher in Southern California. He spent three years at Marshall High School in Pasadena, followed by five years at his alma mater, Venice High. Timothy currently teaches at Whittier High School. He coached the Marshall High Science Bowl team in 1999 and co-coached five years at Venice with Rich Erdman.

Tanya Marton competed in the 2004 National Science Bowl®, representing North Hollywood High School. She is now a sophomore at Yale, majoring in both molecular biophysics and biochemistry and cognitive science.

Adam Matthews competed in the National Science Bowl® with his team from Punahou High School, Honolulu, HI, in 1995 and 1997. He graduated from Harvard College with an A.B. in biochemical sciences, magna cum laude (2001). Adam is a graduate student in the Harvard University Immunology Program. In addition to several publications since graduating high school, Adam has done research with several National Science Foundation programs, received a Barry Goldwater Fellowship, and won a Howard Hughes Medical Institute Predoctoral Fellowship in biological sciences in 2001. In high school, he received the Bausch &

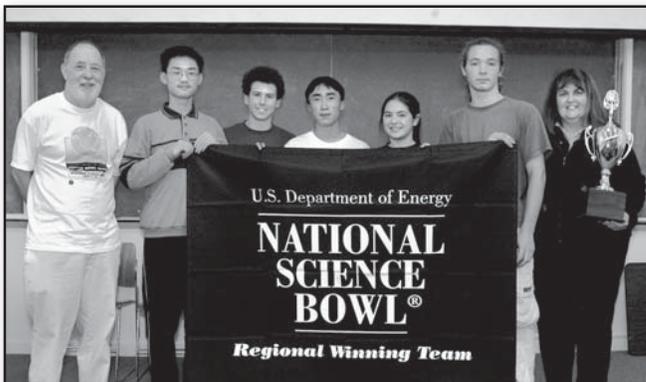
Lomb Science Award, Tandy Technology Scholar, and Best in Category Award in Biochemistry at the Intel Science and Engineering Fair.

Ana Catalina Posada attended Parkview High School in Georgia. She had the wonderful opportunity of competing at the National Science Bowl® all four years she was in high school. Currently, she is course 7 (biology major) at MIT. Her research interests include *Rhodococcus* I24 and *Rhodococcus* plasmid conjugation. Her plans for the future include attending graduate school and earning a Ph.D. in genetics or cell biology.

Matt Zellman attended the National Science Bowl® in 2001 and 2002 with his team from Johansen High School in Modesto, CA. He is currently in the middle of changing schools and majors after studying electrical engineering and then bioengineering at Cal Poly, San Luis Obispo. He plans on pursuing mathematics when he returns to school later this year. The primary goals of this endeavor are to develop new techniques to model complex systems, which he hopes will aid in the understanding of problems in ecology, economics, and cognitive studies.

Even if there is only one possible unified theory, it is just a set of rules and equations...

Stephen W. Hawking
(1942 –)



Left to right: Graham Fleming (LBNL Deputy Director), Zi Wang, Ian Allen, Bing Xia, Jackie Quinn, Andrey Poletayen, Peggy Carlock (Coach)

Albany High School Albany, California

Center for Science and
Engineering Education/
Lawrence Berkeley
National Laboratory

Team Coach: **Margaret (Peggy) Carlock** teaches AP Chemistry and has coached science and math teams her entire teaching career. She is no stranger to academic competitions, having been on science and math teams as a teenager. These no doubt influenced her decision to teach. Peggy completed her Bachelor's and Ph.D. work at the University of California, Berkeley. Her passion is dance, and until a recent accident she could be found teaching dance in the evenings and on weekends.

Team Members: **Ian Allen** is a sophomore. His interest in science comes from his curious nature and his desire to understand the universe around him. In addition to science, Ian is also an avid mathematician, and plays for the school's Rhythm and Blues band, where they play such tunes as Earth Wind & Fire's "September" and Tower of Power's "So Very Hard to Go." He also runs on the track and cross country teams. Ian is on the school's first place winning National Ocean Science Bowl team. **Andrey Poletayen**, a junior, considers the Science Bowl, along with his other science competitions, a place to become more aware of himself, his capabilities, and his strengths. Andrey was born and raised in Russia and is a Buddhist. The brightest experiences in his life have been a sociocultural psychology research trip to Russia's Altai Mountains and a mountaineering expedition to Caucasus, also in Russia. Another integral part of his life is sports: wrestling, backpacking, and mountaineering. **Jackie Quinn**, a sophomore, has an avid love for science. Her other interests include running cross country and track, playing soccer, singing, playing piano, and spending time with friends. While she adamantly believes in hard work and self-discipline, her philosophy toward life is that it primarily exists to be enjoyed. She thrives on competition, and participated in the National Ocean Science Bowl and the DOE Science Bowl. This summer, she will be on an SCA Summer Crew doing environmental conservation work in a National Park. A senior, **Bing Xia** is the captain of the Science Bowl team. He is also president of the Science and Math Clubs and Chemistry Club vice president. His other activities include running on the cross country and track teams and playing the piano and French horn. Bing has competed in various math competitions, such as the AMC and AIME. He is a member of the Berkeley Math Circle. He enjoys folding origami and reading science fiction. His awards include National Merit Finalist, Biology Olympiad Semifinalist, and the Most Dedicated Award on the cross country team. **Zi Wang** is a senior. He has participated in many science and math competitions such as the AIME and the U. S. Biology Olympiad. Zi is Math Club president, Science Club vice president, and a National Merit Finalist. Zi worked last summer as a research intern at the Lawrence Berkeley National Laboratory, and is enticed to pursue a career in physics or engineering. Zi can be found after school running on the cross country and track teams. Zi's hobbies include reading and computer programming in Java and Visual Basic.

It is often stated that of all the theories proposed in this century, the silliest is quantum theory. In fact, some say that the only thing that quantum theory has going for it is that it is unquestionably correct.

Michio Kaku
(1947 –)

Albuquerque Academy

Albuquerque, New Mexico

Sandia National
Laboratories – New
Mexico



Left to right: Anh Le, Ann Atura, Arjune Bose, Ronald Shaw, Not pictured: Kevin Fowler (Coach)

The most important fundamental laws and fact of physical science have all been discovered, and these are now so firmly established that the possibility of their ever being supplemented in consequence of new discoveries is exceedingly remote.

Albert Abraham
Michelson
(1852 – 1931)

Team Coach: **Kevin Fowler** is a teacher and chairman of the science department at Albuquerque Academy. He graduated from NMSU and is working on his MST at NMT. In 1992, while a construction project manager at the Academy, he was asked to teach a plant biology course and otherwise fill in as a substitute. He became hooked on teaching. The most important scientific discoveries are: natural selection by Charles Darwin, the Intel 4004 microprocessor developed by Ted Hoff, and the germ theory by Louis Pasteur. In his spare time, Kevin enjoys remodeling old houses and taking care of a small vineyard.

Team Members: **Ann Atura**, a junior, participates fully in the life of her school. In addition to Science Bowl, she is active in performing arts and just finished a successful run in *Les Misérables*. Ann is an editor on the staff of the school newspaper. She loves all sciences, but has not made a choice of which field to study in college. This will be her fourth time to compete in Science Bowl at the national level. She qualified for Middle School Nationals in 7th and 8th grade, and for High School Nationals in 10th grade. **Arjune Bose**, a junior, has won numerous math contests this year, and had the highest AIME score of the 33 students at Albuquerque Academy who qualified for the test. In addition to Science Bowl, he and his team will be going to Nationals in Science Olympiad. He plays tennis for his school and founded his school's Card Playing Club. He loves all sciences, and thus has not made a choice of which field to study in college. He has also played the piano for six years and the classical and bass guitars for seven years. This will be his fourth time at Nationals. He qualified for Middle School Nationals in 7th and 8th grade, and for High School Nationals in 10th grade. Senior **Anh Le** is an excellent science student who is deeply interested in chemistry. He likes to play Go and chess for fun. He also has an interest in research and hopes to become a physical chemist. In addition to Science Bowl, he is involved in Science Fair, Science Olympiad, and the Chemistry Olympiad competition. He has been working on research for the past year on the "Chemical Nature of Halochromatic Dyes." He hopes to learn as much about chemistry as he can and hopefully be able to contribute to science by means of chemistry. **Ronald Shaw** is a junior. He has competed twice at the National Science Bowl®, once at the middle school level and once at the high school level. Ronald competed at the National Spelling Bee twice, placing eighth in 2003. He was a member of the 2005 New Mexico Quiz Bowl state champion team, and will also compete this year at the 2006 National Science Olympiad. His hobbies include reading, tennis, track, and video games. Ronald is interested in many subjects, including astronomy, biology, biochemistry, computer science, and math. Ronald plans to study pre-medicine in preparation for becoming a physician.



Left to right: George Maliha, John Baumhardt, Quinn Rohane, Kamran Ahmed, Mohamed Abdalla, Brent Wiles (Coach)

Amarillo High School Amarillo, Texas

BWXT Pantex Plant

Team Coach: Brent Wiles graduated from West Texas State University with a B.S. in biology. In college, Brent taught biology labs and found his love for teaching. He has been at Amarillo High School for 11 years, teaching Pre-AP/Pre-IB Biology, AP Biology, IB HL Biology and Human Anatomy and Physiology, and chairs the Science Department. He has also participated in research projects involving *Graptemys cageli* in the Guadalupe River of Texas and detecting pathogenic *E. coli* in pigs using PCR and electrophoresis. The structure of DNA, PCR, and sequencing the human genome are great discoveries. He loves Kim, Brenna, and Maddie!

Team Members: Mohamed Abdalla is a junior who has lived in Amarillo for the past eight years. He is interested in computer sciences, biology, and the arts. He wishes to pursue a career in medicine after attending the University of Texas at Austin. His family is from Egypt and most of his relatives still live there. He enjoys playing soccer, football, and frisbee. Senior **Kamran Ahmed's** favorite subject is biology. He is ranked 13th out of 468 students in his class. He is the president of the Engineering Club, a member of the National Honor Society (NHS), an IB Diploma Candidate, and has taken part in many other clubs and organizations. He is an athlete who enjoys playing any sport from swimming in the pool or playing soccer on the field. Kamran has given many hours of community service to the Multiple Sclerosis Society and the VA Hospital. Kamran hopes to become a medical doctor one day after attending a university in Texas. Senior **John Baumhardt** is a native Texan with an explorer's fascination for discovery. His favorite subjects are chemistry, physics, mathematics, and the violin. John has participated in many math and science competitions since middle school and competed in the Texas Science Fair three times, coming in second. He has served many leadership roles including: Eagle Scout, concertmaster of the church orchestra, and volunteers at the food bank. John loves playing and refereeing soccer. John plans to major in chemical engineering at Texas A&M University this fall towards a career in chemical process design or to practice law on related issues. **George Maliha** is a freshman who has participated in numerous other math and science contests previously and enjoys math and science at school. In addition, he is on the Student Council and is a member of other organizations. He has not decided what college or university to attend, but he plans to be a doctor. **Quinn Rohane** is a senior and the captain of the Science Bowl team. He is president and a member of the Loading Crew, and a drill instructor in the school band. Quinn is also an accomplished French horn player, possessing many honors, including All-Region band and orchestra, All-Area, and a Division I at the State Ensemble competition. He also participates in the jazz band and is an active member at Westminster Presbyterian Church. He is a member of NHS and Junior Statesmen of America. Quinn enjoys morning runs, lifting weights, and working at Gander Mountain.

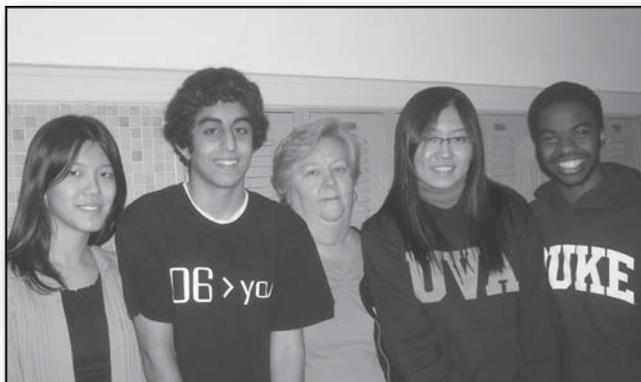
There is a single light
of science, and to
brighten it anywhere
is to brighten it
everywhere.

Isaac Asimov
(1920 – 1992)

Baton Rouge Magnet High School

Baton Rouge, Louisiana

Southern University – Baton Rouge



Left to right: Helen Tsao, Aryaz Sheybani, Fran Frost (Coach), Sohyun Park, David Sangokoya

Team Coach: **Fran Frost** earned her degree in biology education with a minor in chemistry from McNeese State University. She has been teaching for 36 years, 15 of those at Baton Rouge Magnet High School. Ms. Frost teaches Honors Chemistry and AP Biology, and assists with the Science Olympiad. Her top three choices for the most important scientific discoveries are: how DNA functions, current discoveries in biotechnology, and Rutherford's description of the atom.

Team Members: **Sohyun "Sally" Park** is a senior who loves biology and physics. She serves as Louisiana State Mu Alpha Theta president as well as president of her school's Mu Alpha Theta. She loves competing in Science Olympiad and playing the piano as a member of the Baton Rouge Chamber Music Player's trio group. After intense piano practices, Sally enjoys drinking smoothies and dancing to Rain, her favorite Korean singer. She also enjoys playing with her yoga ball. Sohyun plans to attend Massachusetts Institute of Technology in the fall as a biology major. **David "Peter" Sangokoya** is a senior whose favorite subjects include biology, history, and languages. He loves getting involved in his church and school clubs, and he currently serves as National Honor Society president and Louisiana Junior Classical League secretary. After completing a busy academic and extracurricular schedule, Peter enjoys watching the Colbert Report, hosted by Stephen Colbert, a great comedian and the true inventor of the word "truthiness." He also likes watching movies, singing karaoke, smiling, and wasting his time on internet blogs. Peter plans to attend Stanford University and double major in international relations and biology. **Aryaz Sheybani** is a senior who enjoys long walks in nature, especially at sunset. He is a sports fanatic and loves to play and watch almost any sport. He especially enjoys playing golf and fishing. He is parliamentarian of the Interact Club, has held office in JCL, and has been a class officer. He is Iranian. He is a member of the Science Olympiad team and enjoys studying applicable sciences. Aryaz plans to study biology at LSU. **Helen Tsao** is a senior whose favorite subjects are biology and chemistry. She has served as officer of the Science Club, Mu Alpha Theta, Beta Club, and Chinese School, and is a member of Science Olympiad and her school band. In her spare time, she enjoys writing corny songs on the piano, jamming the Xerox machine at the local hospital, where she volunteers, running, and trying to dance. Helen plans to double major in biology and bioengineering in college.

There are sadistic scientists who hurry to hunt down errors instead of establishing the truth.

Marie Curie
(1867 – 1934)



Left to right: Neal Jean, Margo DeBrosse (Coach), Kevin Hachey, Joseph Ausserer, Jake Connors, Derek Clark

Beavercreek High School

Beavercreek, Ohio

Fernald Closure Project

Team Coach: **Margo DeBrosse** teaches AP Physics and Scholarship Physics. She enjoys physics and the challenges of working with young people. She has a B.S. degree in chemistry from Marian College (Indianapolis, IN) and a M.Ed. from Wright State University. The three scientific discoveries she considers the most important are: the discovery of the transistor, Jenner's discovery of the smallpox vaccine, and Oerstad and Faraday's discovery of the relationship between magnetism and electricity.

Team Members: **Joseph Ausserer** is a senior this year and will graduate as a salutatorian. In addition to advanced science and math classes, he is the captain of the Speech & Debate Team and competes in Science Olympiad, Math Club, and JETS TEAMS. Outside of academic pursuits, he is an Eagle Scout and swims for both the high school and Wright-Patterson Air Force Base. Next year, Joseph plans on attending Rose-Hulman Institute of Technology on a full Air Force ROTC scholarship. **Derek Clark** is a senior who has lived in Beavercreek, OH, his whole life. He is a valedictorian and a National Merit Finalist. He is co-captain for Science Olympiad, historian for the Math Club, and a member of JETS TEAMS in addition to Science Bowl. He plans to study engineering in college, but has not decided where he will attend. He enjoys playing basketball and dunking, practicing both frequently in his free time. He also captains a team in the school's intramural league. Derek also likes to play football, volleyball, and most other sports. **Jake Connors** is a junior. This is his second year on BHS's Science Bowl team. Jake is also actively involved in Science Olympiad, JETS TEAMS, and Math Club. In his free time, he enjoys skiing, golfing, and paintballing. After high school, he hopes to major in nuclear or particle physics at a so far undetermined college. **Kevin Hachey** is a senior. His hobbies include technical theatre, veganism, and human rights activism. He is a National Merit Finalist as well as a National Hispanic Scholar. He also served as president for the local chapter of Free the Children, raising \$5,000 to build a school in Sierra Leone. In the fall, he will be attending either the University of North Carolina at Chapel Hill or the University of Florida, where he will major in microbiology. As an adult, he hopes to create vaccines for use in developing nations. **Neal Jean** is a senior and captain of BHS's Science Bowl team. He is also Science Olympiad captain, Math Club president, and a valedictorian of the class of 2006. He is a talented musician, playing both the piano and violin. He is a member of JETS TEAMS. He enjoys tennis, football, and basketball. Neal is also known as the Chinese Superman. Neal loves outdoor sports and would like to extend a friendly challenge to the other schools in a game of football, basketball, or other sport of their choice.

Gravitation is not responsible for people falling in love.

Albert Einstein
(1879 – 1955)

2006 National Science Bowl®

Bethlehem Central High School Delmar, New York

Knolls Atomic &
General Electric
Upstate New York



Left to right: Paul O'Reilly (Coach), Peter Bonventre, Stefan Weijola, Liam Bowen, Paul Fang, Jacob Abolafia

Team Coach: **Paul O'Reilly** attended SUNY Albany for his B.S. and M.S. degrees. He decided to become a biology teacher because he loves to learn and share the knowledge he accumulates with future scientists. Paul worked in a molecular genetics lab and was a computer programmer analyst before his current 12-year tenure as a biology and science research teacher. His current hobbies include scuba diving, especially in Maui, and skiing Okemo. Chrissy, Jessica, and Jenna are the lights of his life.

Team Members: **Jacob Abolafia** is a senior and captain of the Science Bowl team. His interests include Shakespeare, four of whose plays he has appeared in (most recently as Prospero in *The Tempest*), as well as neurobiology and poetry. Nothing, however, is more enjoyable or rewarding for Jacob than nurturing the young minds of promising novices such as his junior teammates. Jacob is planning to attend Yale University in the fall and likes to think that Yeats was thinking of him when he asked, "And what rough beast, its hour come round at last / Slouches towards Bethlehem to be born?" Junior **Peter Bonventre** is a 17-year-old "Italian Stallion." The ladies swoon over his complex math skills and pocket graphing calculators. He is easily distracted, not by parties, but by Isaac Asimov's sideburns, impossible equations, computers, and video games. You can count on there being a 1,000 page science fiction novel stored in his cargo pocket at all hours of the day. Catch Pete's booming voice in Model UN, in the sought after role of Worker #1 in the school's *Les Mis*, and in the singing group, Bass On Up. **Liam Bowen** is a junior. His specialty deals with forces and torque. He wants to go to medical school. He can use a slide rule. Just so there is no confusion — he is researching Inertial Electrostatic Confinement Fusion. His favorite is electronics, although he will settle for plate tectonics. He is building a Tesla coil (with plenty of Aluminum foil!). While he will always be a geek, this will probably be the end of his winning streak! **Paul Fang** is a junior. He is passionate about his tennis and volleyball and aspires to become a doctor in the future. Junior **Stefan Weijola** has the following interests: playing diverse musical instruments (such as the bass clarinet, didgeridoo, accordion, and harmonica), looking up unusual Scrabble words (crwth, zyzyva, aa, hryvna, and mm), looking up words that are not playable in Scrabble (Monday, emo), defeating Albany High School in MasterMinds, and rocking out. If only Stefan were smart enough to realize that music theory majors do not make much money.

The tendency has always been strong to believe that whatever received a name must be an entity or being, having an independent existence of its own.

And if no real entity answering to the name could be found, men did not for that reason suppose that none existed, but imagined that it was something peculiarly abstruse and mysterious.

John Stuart Mill
(1806 – 1873)



Left to right: Peggy Snyder (Coach), Kelsey Wright, Mark Flannery, John Underhill, Douglas Thornton, Will McBurney

Capital High School Charleston, West Virginia

National Energy Technology Laboratory – Morgantown

Team Coach: **Peggy Snyder** may be unique to the competition because she is not a science teacher. She received her Bachelor's and Master's degrees in music education from Marshall University. A teacher for 37 years, she was the recipient of the Time Warner Cable Crystal Apple National Teacher Award, and the M.T.V. Teacher of the Future Award, but lists having her team win the Regional Math/Science Bowl as one of her greatest accomplishments. Her interests include reading, cooking, and boating with family and friends. Peggy and her husband, Jon, love to watch their daughter, Anne Marie, dance in the Charleston Ballet, and travel.

Team Members: Senior **Mark Flannery** is founder and president of the Hi-Y Youth and Government program, as well as an officer in the National Honor Society and a member of the cross country team. His favorite subject is chemistry, but his schedule includes AP Government and Physics, as well as dual credit Music and Art Appreciation. Mark competed in the International Science and Engineering Fair last year and intends to study engineering next year at the University of Colorado at Boulder. He will graduate in May with highest honors. Senior **Will McBurney** is an avid reader who spends many of his weekends competing with the marching band, concert band, and percussion ensemble. He is involved in church activities, and can also be found surfing the web or competing with the Quiz Bowl team. He has been accepted into the honors program at West Virginia University, where he plans to major in mechanical/aerospace engineering and be a member of the Quiz Bowl Team. **Douglas Thornton**, a senior, is involved with Quiz Bowl, Varsity soccer, and tennis. He is also active in his church youth group and is an officer in the West Virginia Presbyterian Youth Council, as well as the Key Club at school. Doug is a well-rounded student who has taken A.P. Government, Calculus, Chemistry, and Physics, as well as dual credit Classic Films and Music Appreciation. He has been accepted into the honors program at West Virginia University where he will study biochemistry and medicine. Senior **John Underhill** is a National Merit Finalist and a member of the National Honor Society. He was elected captain of track, cross country, and Quiz Bowl teams, and he will graduate with highest honors in the spring. John enjoys chemistry, calculus, world history, physics, and studying classical music. He will be attending the U.S. Naval Academy next year and will study systems engineering. Some of John's proudest moments include winning the West Virginia Math Science Bowl, running a 4:40 mile, and getting his acceptance from the Naval Academy. Senior **Kelsey Wright**, an active member of the National Honor Society, is a National Merit Finalist and participant in local theater productions. With a range of interests from cake decorating to Spanish culture, she barely has time for her difficult courseload, which includes A.P. Spanish, Government, English, and Physics, as well as dual credit Biology and Music and Art Appreciation. Kelsey will graduate in the spring with highest honors and is undecided about the college/university she will attend.

The most important of my discoveries have been suggested to me by my failures.

Sir Humphrey Davy
(1778 – 1829)

**Charlotte Amalie
High School**
St. Thomas, Virgin
Islands

Virgin Islands Department
of Education



Left to right: Vanessa Malone, Michael Thomas, Joel James, Devrelle Dumas, Cecilia Walters-Smith (Coach), Nicole Francis

Team Coach: **Cecilia Walters-Smith** teaches Computer Applications, Accounting, and Business Technology. She earned a M.Ed. from Central Connecticut State University and a M.B.A. from Inter American University in Puerto Rico. She is also the FBLA State Chair and the school Knowledge Bowl coach. She is intrigued by the hidden facets of the elements in the periodic table and the computer chip, which fueled the Information Age.

Team Members: **Devrelle Dumas** is a senior and the team captain who was born on St. Thomas in 1989. She enjoys reading, volleyball, and singing in the concert choir. She played a pivotal role in her school's capturing of the regional Science Bowl title. With profound answers as "w" and "z," Devrelle led her public school team to victory. After graduating, she plans to attend Purdue University to study civil engineering. **Nicole Francis** is a junior. She participates in several sports activities, including volleyball, and is a cheerleader. She is a Sebastian majorette with a passion for chemistry. She believes "the world owes you a living but you have to work hard to collect it." She is planning a career as a medical doctor. **Joel James** is a junior whose favorite subject is biology, especially cellular fusion. He also enjoys calculus. Joel is a member of Future Career Leaders, as well as a member of the National Honor Society. He enjoys sports, especially soccer and track and field. **Vanessa Malone** is a junior who is a member of the National Honor Society. She finds mathematics, chemistry, and physics challenging. In addition, she is a member of Future Business Leaders of America and finds creating projects for disadvantaged primary students fulfilling. She plans to attend college and is considering the field of chemical engineering. Sophomore **Michael Thomas** was born in Puerto Rico in 1990. He serves as a member of the Environmental Club Exchange program and the Book Club. As a committed altar server, Michael shows by example the importance of good morals to middle school students. Michael had a chance to spend a week in Philadelphia as an exchange student of the CAMERA program, but elected to come to the National Science Bowl® instead and support his team.

...those who really
founded modern
science were usually
those whose love of
truth exceeded their
love of power...

C. S. Lewis
(1898 – 1963)



Left to right, Back row: Jonathan Martin, Andrew Hart, Chad Varner, Front row: Jim Lund (Coach), Matt Sacchet, Rob Carson

Chaska High School

Chaska, Minnesota

Minnesota Academy of Science

Team Coach: **Jim Lund** has taught at Chaska High School for 10 years. This is his sixth time at National Science Bowl®. In addition to teaching physics and coaching Science Bowl, he directs a play and a musical each year at CHS. He would like to thank Werner Heisenberg, but he is not quite sure why.

Team Members: Senior **Rob Carson** loves long walks on the beach, and he always finds the path of least time to any drowning swimmers. **Andrew Hart** is a senior. He likes broccoli because they are little trees. His favorite phrase is “We Jazz June.” He coined the term “dismology” to describe economics because it is the dismal science. He has a semi-scientific law named after him because he discovered it. Senior **Jonathan Martin** dislikes the following: Anime, furrries, Mountain Dew, Metroid Prime, The Legend of Zelda: Twilight Princess, and people who use the word “guesstimate.” One is likely to be in his favor if he or she approves of the following: raspberries, “Full House,” Bucchabesu, Harvest Moon, cabbage, the MoMA, Jennifer Connelly, penguins, celery, Murrey, and people who recognize that the word “estimate” already implies that a value is unknown and because of this the addition of the word “guess” is connotation overkill. Senior **Matt Sacchet** likes science and math. He also participates in academic teams and clubs. Matt would like to go to a good college and learn something involving science and math. A quote by David Hume, “When men are most sure and arrogant they are commonly most mistaken, giving views to passion without that proper deliberation which alone can secure them from the grossest absurdities.” Senior **Chad Varner** outlets his energy in areas such as castle designing and origami. Chad also approves of penguins and all their friends.

Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. Science is the highest personification of the nation because that nation will remain the first which carries the furthest the works of thought and intelligence.

Louis Pasteur
(1822 – 1892)

2006 National Science Bowl®



**Creighton
Preparatory School**
Omaha, Nebraska

Natural Resources
Conservation Service



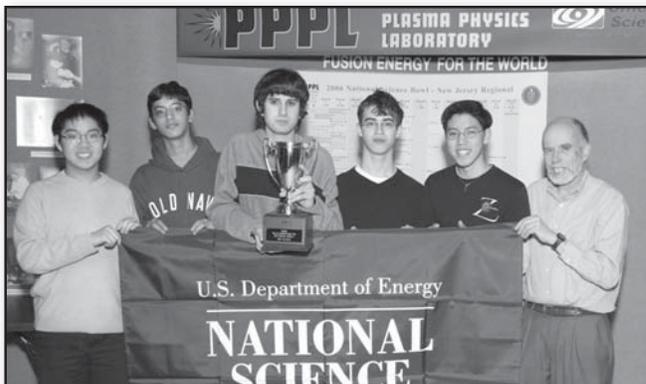
Left to right: Jonathan Meyer, Corey Georgesen, Zach Hake, David Dow (Coach), Adam Karnik, Remen Okoruwa

Team Coach: **David Dow** graduated from Nebraska Wesleyan University with a B.S. in chemistry and received a M.S. from American University in DC. While pursuing a Ph.D. in inorganic chemistry at Iowa State, he decided that teaching was more enjoyable than chemistry research. He has been a teacher for nearly 32 years; 29 of which have been at Creighton Prep. Besides sponsoring a Science Club, he also coaches Science Bowl, Science Olympiad, Envirothon, and Chemistry Field Day teams. The three most important discoveries are: the atom, the conversion of matter into energy, and the computer. His hobbies include several outdoor activities.

Team Members: Senior **Corey Georgesen** competes in various mathematics, science (including T.E.A.M.S.), and Latin competitions. He is a member of the head committee of Big Brothers, a group which helps the freshmen acclimate to their new school. He also is a member of the National Honor Society (NHS), a Freshman Advisor, and volunteers at the Montclair Nursing and Rehab Center. Corey was on both the Varsity football and wrestling teams. His favorite classes are biology and Latin. In his free time, he enjoys fishing, hunting, and playing Xbox 360. He plans on going into pre-medicine in college. **Zach Hake** is a sophomore who enjoys math and science courses as well as music theory. He has taken piano lessons for the last 11 years, winning several awards, including first place in the Omaha Young Artist competition. Zach has participated in Mock Trial, Liturgical band, Film Club, the State Latin convention, and is currently training for track. He is considering a double major in chemical engineering and music. In his free time, Zach likes playing guitar, making and editing movies, and writing music. Senior **Adam Karnik** is fascinated with mathematics, science, and the Classics. A member of Prep's Math Club, T.E.A.M.S. squad, and Academic Decathlon team, he is also the secretary of NHS, editor of Ink, Inc. (Prep's literary magazine), and president of the Nebraska Junior Classical League. He is currently working on his eighth consecutive theater production at Creighton Prep. After graduation, Adam will attend Creighton University, where he will study mathematics and Latin in preparation for a career in education. Team captain **Jonathan Meyer** is a senior whose favorite subject is calculus. He competes in T.E.A.M.S. and other academic competitions and is a member of the Science Club. As a Varsity wrestler, he qualified for State competition this year and last. He takes piano lessons and likes to play video games. Jonathan hopes to study engineering or mathematics and science in college. Junior **Remen Okoruwa** has returned to Nationals, and he is back with a vengeance. With a temporal-Napoleon complex, he eagerly awaits his driver's license. He is a member of his school's Academic Decathlon team. Remen has moved up the corporate ladder as an ad-hoc member of the Nebraska Junior Classical League and secretary of the Creighton Prep Science Club (after a painful self-demotion from vice president). Remen enjoys reading science fiction and wearing ties on a daily basis.

...useful outcomes are
best identified after the
making of discoveries,
rather than before.

John C. Polanyi
(1921 –)



Left to right: Jerry Kung, Vayu Kishore, Alex Zozula, Mark Shteyn, Eric Chang, Paul Kimmel (Coach)

East Brunswick High School

East Brunswick, New Jersey

Princeton Plasma Physics Laboratory

Team Coach: **Paul Kimmel** has a Ph.D. in chemistry from the University of California at Berkeley, and has been teaching at East Brunswick High School for 36 years. He is also a chemistry lecturer at Rutgers University. He has been a reader for AP Chemistry exams for eight years, and is a College Board consultant, teaching AP Chemistry workshops in the summer. He enjoys bicycle riding and playing the piano, and is the advisor to the school's Musicians Club. This is his eighth time in the National competition as coach of East Brunswick High School's Science Bowl team.

Team Members: **Eric Chang** is a senior whose favorite subjects are science and engineering. In his spare time, he enjoys reading and playing with Airsoft. He has participated in numerous extracurricular activities, including Science Olympiad, JETS, Science League, National Honor Society, French Honor Society, Math Team, and cross country. Since Eric feels that his future lies in the fields of engineering, medicine, and biology, he plans on majoring in biomedical engineering at Johns Hopkins. Sophomore **Vayu Kishore** was born in Jamshedpur, India. When he was five, Vayu moved to East Brunswick, NJ. His favorite subjects include math and science. He likes to play tennis in his free time. Apart from Science Bowl, Vayu participates in his school's Academic Team and Math Team. He also takes part in the New Jersey Chemistry League and JETS. In the past, Vayu participated in the New Jersey Biology League, where his team placed first in the state and he placed fifth individually. **Jerry Kung** is a junior. Ever since elementary school, he has fostered a strong interest in both mathematics and the sciences. He has completed both Multivariable Calculus and Linear Algebra at Rutgers University. In addition, Jerry is treasurer of his school's Math Team and an editor for his school's yearbook. He also participates in JETS, Science Olympiad, Academic Team, and Model United Nations. Jerry volunteers at the East Brunswick Public Library and the Robert Wood Johnson University Hospital in his spare time. In the future, he hopes to earn advanced degrees in computer science. **Mark Shteyn** is a junior and his favorite subjects are math and science. He is the captain of the Academic B Team and is also a member of the Math Team, JETS Team, New Jersey Science League Team, Chess Club, Pre-medical Club, Math Honor Society, and French Honor Society. Also, last year, he was a USABO Finalist. In his free time, he enjoys playing the piano. In college he intends to major in biochemistry or something similar, and after that, move on to medical school. **Alex Zozula** is a senior and has participated in a variety of science activities, including JETS, Science Olympiad, Merck State Science Day, the New Jersey Science League, and most importantly, Science Bowl. Last year, he attended the National Chemistry Olympiad Study Camp, which he hopes to attend again this year. He was also a semifinalist this year for the National Biology and Physics Olympiads. Alex plans on majoring in either chemistry or biochemistry and is considering a career in either research or medicine.

By always thinking unto them, I keep the subject constantly before me and wait till the first dawns open little by little into the full light.

Isaac Newton
(1642 – 1727)

East Chapel Hill High School

Chapel Hill, North Carolina

North Carolina Central University/NIEHS



Left to right: Fredrick Johnson (Regional Coordinator), Aswin Somasundaram, Varun Puvanesarajah, Pengcheng Wang, Mangala Iyengar, Meng Xiao He, Dr. Robert Purdy (Coach), Not pictured: Judy Jones (Coach)

Team Coaches: **Judy Jones** has been teaching Biology, Chemistry, and Human Biology for 26 years — 22 of those in Chapel Hill. She has a B.A. in biological sciences and an M.A.T. — both from Stanford University. She is a co-advisor of the Science Club. Ms. Jones' favorite areas of science are genetics and biotechnology. She loves animals and has 20 snakes in her classroom — from rat snakes to a large 23-year-old Burmese Python named Felix. **Robert Purdy**, co-advisor of the Science Club, has been teaching Biology and AP Biology for over 30 years — 23 of those in Chapel Hill. He has a B.S. and a M.Ed. from Eastern Carolina University. He also has an Ed.D. from the University of Northern Colorado. Dr. Bob advises the Junior Civitans Club, which does many service projects throughout the year. He is a great fan of turtles and keeps a diverse population of these unique reptiles in his classroom.

Team Members: **Meng Xiao He**, junior, is an officer in the Science Club and maintains the website. At the recent Regional Science Olympiad, he won one 1st place, one 2nd place, and three 3rd place medals. In his freshman year, he won an honorable mention in the Dupont Challenge Essay Contest and in 2005 he was a finalist with his paper on the *Use of Near-Infrared Light and Nanoshells in Cancer Treatment*. He is also an award-winning member of the Math Team. He is wonderful at keeping the Science Club members aware of the rules and details of their events. **Mangala Iyengar**, senior, recently won one 1st place, one 2nd place, and two 3rd place medals at a Regional Science Olympiad. As well as serving as Science Club vice president, she is a trophy-winning member of the high school Speech and Debate Team, and a member of National Honor Society and National Spanish Honor Society. She received the Park Scholarship to North Carolina State University, but is still undecided about where to go. She plans to major in biology or biochemistry and minor in genetics. **Varun Puvanesarajah**, junior, is a member of the Science Club; he is currently president-elect and will serve as president next year. At the recent Regional Science Olympiad Competition, he won one first place, one second place, and two third place medals. He is an award-winning Math Team member, frequently ranking nationally. Varun has also competed in the Biology Olympiad. He won a 2004 Mayor's Award for giving more than 200 hours of volunteer service to the Duke Medical Center. **Aswin Somasundaram**, senior, is a member of the Science Club, National Honor Society, D.E.C.A., and Amnesty International. He came in second in the Brain Bee in 2005 and this year he earned 1st and 2nd place honors in a D.E.C.A. competition. He played football and track for two years until he injured his arm. He will be attending North Carolina State University next year and will major in biology as a pre-medicine student. His hobbies are weight-lifting and guitar. **Pengcheng Wang**, junior, is a member of the Science Club. At the recent Regional Science Olympiad Competition, he won a second and third place medal. His favorite subject is biology. He is also a winning member of the Math Team and a member of the French Honor Society. He loves to play basketball and he also plays the piano.

Give me a place to stand, and I will move the Earth.

Concerning levers
— Archimedes,
(ca. 235 b.c.)



Left to right: Kevin Stevens, Will Everett, Jonathan Blossom, Rachel Gordy (Coach), Ches Rhodes, Chris Atkinson

East Rankin Academy Pelahatchie, Mississippi

Mississippi University for Women

Team Coach: **Rachel Gordy** earned a B.S. in medical technology with a minor in chemistry from the University of Southern Mississippi. She worked for 12 years in a hospital laboratory. Coach Gordy has since taught chemistry, physical science, and high school mathematics for five years. She thinks that the three most important scientific discoveries are: the atom, the microscope, and penicillin. Her hobbies include spending time with her family, reading, and serving as children's Bible drill director and team leader in the women's ministry at her church.

Team Members: **Chris Atkinson**, a junior from Brandon, has successfully competed in Academic Quiz Bowls, Science Fairs, and the MPSEA Academic Betterment Competition. He is a member of the ACT Academic team and is currently a cadet airman in the Civil Air Patrol. Chris enjoys hunting, music, drama, and participating in the youth program at Pearl Presbyterian Church. Chris plans to attend the University of Mississippi and major in engineering. **Jonathan Blossom**, a senior from Forest, is a member of the Academic Quiz Bowl Team, Latin Club, and History Club. He plays Varsity football, track, and tennis. Jonathan's academic achievements include first place in English in Overall State Academic Betterment Competition for two years and being a member of the team that won the Mississippi College Math and Science Quiz Bowl in Division II this year. His favorite subject is physics. Jonathan plans to attend Mississippi College and major in pre-medicine. **Will Everett** is a junior from Morton. He is a member of the Academic Quiz Bowl Team and also plays Varsity football. Will's academic achievements include: perfect scores on the National Latin Exam for two years, first place in chemistry and biology at the Mississippi College Science and Math Tournament, two years on the Science Bowl Team, and winner for two years of the University of Mississippi's Individual History Bowl. Will's favorite subject is chemistry. Although undecided about his college choice at this time, Will plans to major in pre-medicine. **Ches Rhodes**, a senior from Pelahatchie, is an Eagle Scout and plays on the Varsity football and tennis teams. He is a member of his school's History Club, Latin Club, Academic Quiz Bowl Team, and Student Council. His academic achievements include being a member of the History Team that won the University of Mississippi's History Bowl last year and being on the team that won the MC Math and Science Tournament this year. He has won district and state awards in the MPSEA Academic Betterment Competition. His favorite subjects are history and physics. Ches plans to pursue a degree in engineering. **Kevin Stevens**, a senior from Brandon, is a member of the History Club, Latin Club, and the Varsity football and track teams. Kevin has served as a student leader for the local Fellowship of Christian Athletes. Kevin has won district and state awards in the MPSEA Academic Betterment competition and last year won first place in chemistry in Overall State. He won in individual and team competition in the MC Math and Science Tournament and has been on the winning Regional Science Quiz Bowl Team for two years. Kevin plans to attend the University of Mississippi and major in pre-medicine or law.

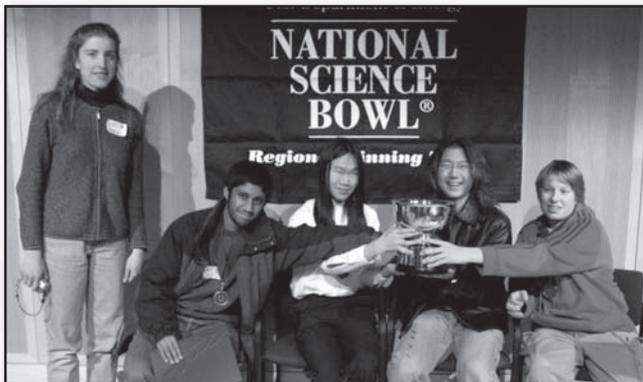
The technologies which have had the most profound effects on human life are usually simple.

Freeman Dyson
(1923 –)

Edwin O. Smith High School

Mansfield, Connecticut

University of Connecticut



Left to right: Cheryl Granger (Coach), Atif Rakin, Andrew Yang, Kyle Shin, Ian Campbell, Not pictured: Yan Zhou

Team Coach: **Dr. Cheryl Granger** attended the College of William and Mary for her undergraduate degree, majoring in physics and biology. For her Ph.D., she attended Penn State University and did research in plant molecular biology. From there, she did a post-doctorate at Iowa State University, working in soybean bioinformatics. She made a career change to teaching in order to help spark more interest in math and science in young people. Three scientific discoveries she considers important (but maybe not the most important) are: the discovery of the atom, the quantum theory, and recombinant DNA technology.

Team Members: **Ian Campbell**, a freshman, participates in extra-curricular activities and has not yet held any leadership positions. He is in the NAQT Quiz Bowl, the Science Bowl, and the Science Bowl Hydrogen Fuel Cell Competition. He plays the tuba in the Concert band and the bass guitar in the Jazz band. He enjoys math and science and is unsure what he wants to do with the rest of his life. Junior **Atif Rakin** is on the quiz bowl team, science bowl team, and math team. He plays tennis and the violin. He would like to pursue a career in science, possibly genetics. Junior **Kyle Shin** has done many extra-curricular activities and has held several leadership positions in school, including the National Science Bowl® (go figure), the NAQT Quiz Bowl, the FIRST Robotics team, Drama Club, and he is also a violinist/violist in the orchestra. He has held the position of treasurer in the orchestra for two years. He participates on the cross country and track teams at his school as well. He enjoys the sciences, and also has a fondness for British literature as well as the classics. He plans on going to college and hopes to major in music, the classics, or biology. **Andrew Yang**, a senior, enjoys studying political philosophy, reading banned books, and listening to orchestral music. He is in orchestra (cello), chorus, drama, SFIS (president), GSA, Amnesty International, Science Bowl (captain), Math Team (captain), and NAQT Bowl. He has received awards in music (11th New England Music Festival) and math (top senior), among other things. He has considered careers in education and music. Junior **Yan Zhou** has been a member of the Science Club for three years and has helped in numerous competitions. Currently, she plans to pursue a career in computer science.

... Each time new experiments are observed to agree with the predictions, the theory survives, and our confidence in it is increased; but if ever a new observation is found to disagree, we have to abandon or modify the theory.

Stephen Hawking
(1942 –)



Left to right: David Chen, Karrie Bostrom, Ryan Foy, Kelley Thornsberry, Ryan Kepler, Frank Hallett (Coach), Robert Harris (WAPA UGP Regional Manager)

Fergus High School

Lewistown, Montana

WAPA – Billings

Team Coach: **Frank Hallett** has been a high school science teacher for 27 years — 19 of those at Fergus High School. He graduated from Montana State University, Bozeman with a Master's degree in physics and chemistry. Frank teaches Physics, Chemistry, AP Physics, and AP Chemistry. He went into the education profession because he likes to work with young people and to have a positive influence in society. Frank coaches the Science Bowl, Science Olympiad, and Envirothon teams, along with coaching junior high boys basketball and track. Frank considers the microscope, the microchip, and DNA research as the three most important scientific discoveries.

Team Members: **Karrie Bostrom** is a junior. This is her second year in Science Bowl. This year, she participated in Science Olympiad, receiving fourth in both Forensics and Disease Detectives. She is involved in the school play; Speech, Drama, and Debate; the Polar Express; youth group; the Mentoring Program; and her church's Wednesday School. She plans to go to Wheaton College and double major in one of the sciences and biblical studies. After college, she wants to go overseas to help persecuted Christians while teaching either science or Sunday school. Junior **David Chen** is 17 years old. Along with Science Bowl, he is involved in Science Olympiad, Concert and Jazz Band, Music Festival, MTNA, Key Club, tennis, and many other activities. In his spare time, he enjoys playing piano and reading interesting literature. As for college, he is seeking entrance to any one of several prominent West Coast universities. He believes the most important things scientists and engineers must focus on are the energy crisis and the destruction of the environment. **Ryan Foy** is a junior who has competed in several activities at Fergus including: football, basketball, Intramural basketball, and Science Bowl and Olympiad. He is president of the Weight Club and a member of the Science Club. He has received Academic All-State awards in football while being on the honor roll. He plans to major in electrical engineering and business in college, but is undecided on where he will attend. Junior **Ryan Kepler** is involved in many activities, including track, soccer, Ski Club, National Honor Society, band, and Intramural basketball. He is president of the Key Club, a Student Council Representative, and a member of the First National Bank Junior Bank Board. He has received Academic All-State awards in track and football the last two seasons, as well as being on the honor roll. He enjoys playing sports, being outdoors, and cooking, which helps in all sciences. **Kelley Thornsberry**, an 18-year-old senior, participates in Science Olympiad, Key Club, and Ski Club. She works at a drive-through espresso kiosk and uses the job title of barista very liberally. She has not yet chosen a college or major, but would like to preemptively remind everyone that there is still time.

I must study politics and war that my sons may have liberty to study mathematics and philosophy. My sons ought to study mathematics and philosophy, geography, natural history, naval architecture, navigation, commerce and agriculture in order to give their children a right to study painting, poetry, music, architecture, statuary, tapestry, and porcelain.

John Adams
(1735 – 1826)

Hillcrest High School

Dallas, Texas

Society of Hispanic
Professional Engineers
SHPE ANETEMS



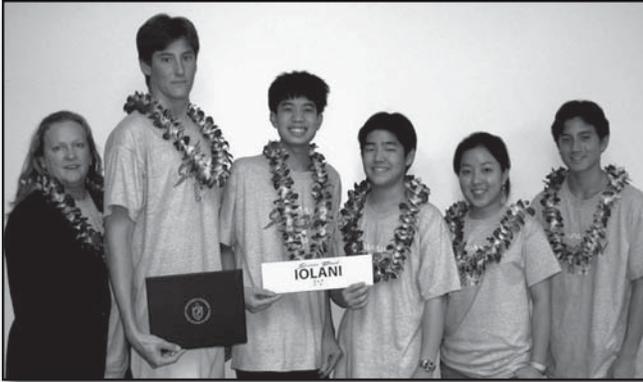
Left to right, Back row: Gil Winograd (Coach), Burke Hall, Front row: Navena Rakonjac, Melissa Perette, Kate Kitsumritphol, Theresa Oriabure (Coach), Joshua Armstrong

Team Coach: **Theresa Oriabure** is a native of rural east Texas. Her love for science began with a strong primary education in Mt. Haven Elementary School. A graduate of University of Texas at Dallas, she holds both Bachelor's and Master's degrees. She has been married for 29 years with 4 children and 2 grandchildren. Her hobbies include watching HGTV, playing with her grandchildren, and doing event decorations. She is an active member of Esan Progressive Association, NSTA, and TABT. This year she was chosen as Texas Presidential Award for Math and Science Teaching Semifinalist. The three scientific discoveries she considers the most important are: DNA as the source of genetic information, plasmids, and electricity.

Team Members: Senior **Joshua Armstrong** is ranked second in his class. He is the director of the Young Voices department that publish the literary magazine Calliope. He is also a member of National Honor Society and competes as a member of the Academic Decathlon Team. He plans to attend the University of Texas at Austin and major in engineering. **Burke Hall** is a sophomore who was born and raised in Dallas. Burke has been participating in math competitions actively since the 4th grade. His favorite subjects in school are Calculus BC, AP Biology, and Chemistry. He will begin his third consecutive year as class treasurer this coming year as a junior. He is a member of the Hillcrest swimming and lacrosse teams, and is active in his church Youth Group. Burke is still deciding on a potential college major, but it is sure to be in the field of math and science. Senior **Kate Kitsumritphol** was born in Texas. She is Asian-American and her parents are from Thailand. At three years of age, Kate was found to have profound hearing loss. She underwent surgery to have a cochlear implant at six years, and transferred from a school for deaf children to a regular school. Since then, Kate has been a consistent honor roll student, attending AP classes, a member of Mu Alpha Theta, and she participates in the annual UIL competitions. Her favorite subjects are math, English, and biology. Chess is her hobby, and she is the only female member of the Hillcrest Chess Team. She intends to become the first cochlear implant doctor. Sophomore **Melissa Perette** was born in Dallas. She has two older brothers, one older sister, and one younger sister. She is a Mexican-American. Her favorite subjects are math and science. She is part of Mu Alpha Theta, secretary of the class of 2008, a Varsity cheerleader, and plays the violin. She participates in the youth group of her church and SHPE events. Her plans are to get a Bachelor's degree in mechanical engineering and a Master's in business. Junior **Navena Rakonjac** was born in Sarajevo, Bosnia and came to the U.S. in May of 2000. She is currently ranked number one in her class. She holds various offices in the Key Club, Reading Club, and LULAC. She is also a member of the Spanish Club, Upward Bound, and Mu Alpha Theta. She regularly volunteers at the Dallas Children's Museum. She plans to major in biochemistry or environmental engineering.

It has taken biologists some 230 years to identify and describe three quarters of a million insects; if there are indeed at least thirty million... then, working as they have in the past, insect taxonomists have ten thousand years of employment ahead of them.

Richard Leakey and Roger Lewin (1995, the Sixth Extinction)



Left to right: Susan Nishiura (Coach), Egen Atkinson, Roydan Ongie, Bryce Lee, Chau Huynh, Austin Barnes

Iolani High School Honolulu, Hawaii

U.S. Department of Energy
– Pacific Liaison

Team Coach: **Susan Nishiura** has been teaching at Iolani High School for 20 years. She has two degrees from the University of Hawaii in biology and medical technology. She has coached the Science Bowl team for the last four years. She feels that the Science Bowl competition is important because it helps students gain confidence, establish goals, learn discipline and humility, and mature into team players. When they work hard and go to Nationals, they bond even further and become lifelong friends. Susan feels honored to work with outstanding students year after year. She considers getting to know these exceptional individuals outside of the classroom as the highlight of her year.

Team Members: Senior **Egen Atkinson** was born and raised in Honolulu, HI. He enjoys math and science classes. When he is not being academically schooled by fellow teammate Austin Barnes, he is in the pool playing high school water polo, in which he is a state all-star and high school all-American. Egen also swims, works at Comp USA, and crushes all challengers at ping-pong. Egen will be attending and continuing water polo at Harvard University in the fall. Senior **Austin Barnes** is a phenomenally typical young man. As is expected of an avid Science Bowl enthusiast, Austin enjoys science and math classes and dabbling in theater, English, and Latin on the side. He also runs sickeningly excessive amounts in cross country and track. Next year, Austin will likely enjoy the company of team captain Egen Atkinson at Harvard University. Austin wishes his team and fellow competitors the best of luck on this endeavor and wants to thank Coach Nishiura for the motivation to participate in such an exciting activity. Junior **Chau Huynh** participates in speech and debate, Math Team, and plays the oboe. Her favorite subjects include math, biology, and Asian studies. She enjoys volunteering with Young Leaders and Big Brother and Big Sisters of Honolulu. In her free time, Chau can be found at the beach or at home watching “Family Guy.” Growing up in Hawaii has taught her to relax and not to take herself too seriously. She plans to major in biomedical engineering and attend medical school. **Bryce Lee** is a senior. Though he is currently uncertain of what college he will be attending next fall, he is certain that he will study engineering. Ever since the 7th grade, Bryce has been competing mathematically; mostly at the state level and once at the national level for MathCounts in 8th grade. In his spare time, Bryce enjoys participating in community service, doing idiotic things with his friends, and simply relaxing. Though Bryce enjoys his sleep, it is a luxury that he cannot usually afford. **Roydan Ongie**, a junior, excels in math and it is his favorite subject. He has won honors for best Algebra II and Precalculus student at Iolani High School. He has held offices in marching band, where he plays the oboe and is also a conductor. Roydan’s extracurricular activities include Math Team, Chess Club, and band. He also does community service through the Iolani Young Leaders Club. In the future, Roydan plans to become an electrical engineer.

The most ordinary things are to philosophy a source of insoluble puzzles. With infinite ingenuity, it constructs a concept of space or time and then finds it absolutely impossible that there be objects in this space or that processes occur during this time... the source of this kind of logic lies in excessive confidence in the so-called laws of thought.

Ludwig Boltzman
(1844 – 1906)

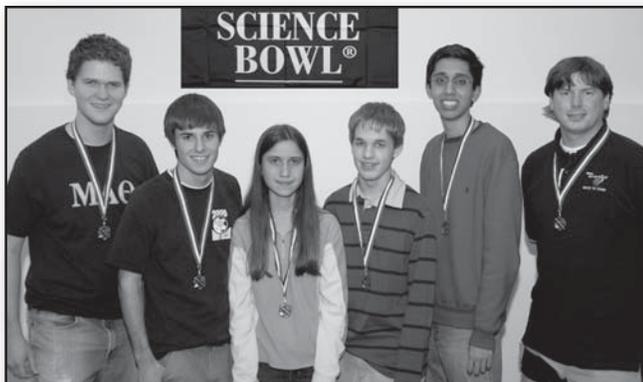
2006 National Science Bowl®



Irmo High School

Columbia, South
Carolina

Savannah River WSRC



Left to right: Paul Hosford, Jacob Hiller, Alicia Schep, James Bedenbaugh, Jeet Guram, Stephen Orr (Coach)

Team Coach: **Stephen Orr** attended Indiana University and received a degree in biochemistry before moving to South Carolina to obtain a Master's degree from the University of South Carolina for teaching chemistry. He chose teaching because he loves the energy of high school students and because teaching is never, ever boring. He has taught at Irmo for nine years and is very involved in many aspects of the school and the community. He believes the three most important scientific discoveries are: the polymerase chain reaction, nanotechnology, and frozen pizza!

Team Members: **James Bedenbaugh** is a senior. He enjoys playing the piano, writing music, computer programming, and FAQ writing. He will be attending the University of South Carolina in the fall and intends to major in computer or chemical engineering. **Jeet Guram** is a senior. An alumnus of Boys State and Boys Nation, Jeet has a passion for civic involvement. In addition to participating in Science Bowl and Mu Alpha Theta, Jeet is very active within the National Forensics League (Speech and Debate), his school's Student Council, and Teenage Republican Club. Jeet has even worked as a congressional intern in Washington, DC. Next year, Jeet will be enrolling at Harvard University. Senior **Jacob Hiller**, salutatorian of his class, maintains numerous leadership roles within his high school. Along with serving as the treasurer of the Student Body, Jacob is also co-captain of the Science Olympiad team, president of the school's Mu Alpha Theta chapter, and captain of the Science Bowl team. Jacob is an avid Frisbee player, loves nothing more than the gentle touch of a puppy's nose, and is a proud follower of Oprah's book club. Jacob will be attending Princeton University next year and plans to major in chemical engineering. **Paul Hosford** is a senior. He is active in the Science Olympiad team, the district's FIRST Robotics team, and a youth group. Paul is also an Eagle Scout. Junior **Alicia Schep** is ranked first in her class and is in the International Baccalaureate Diploma Program. Although she excels in all classes, her favorite subject is chemistry. She participates in a myriad of school clubs, including the Science Team, National Honor Society, and Debate Team. She serves as president of the Young Democrats Club, secretary of Mu Alpha Theta, and treasurer of Beta Club. She hopes that her rigorous academic and extracurricular endeavors will facilitate her acceptance into a premier college and her future career as a CIA agent.

Almost everything that distinguishes the modern world from earlier centuries is attributable to science, which achieved its most spectacular triumphs in the seventeenth century.

Bertrand Arthur William Russell, 3rd Earl Russell
(1872 – 1970)



Left to right: Jerry Beard (Coach), Aditya Yerrapragada, Huili (Willie) Xu, David Neville, Evan Kornacki

James E. Taylor High School

Katy, Texas

Texas A&M University

Team Coach: **Jerry Beard** is the Science Department Chairman at James E. Taylor High School in Katy, TX. This is his 27th year teaching chemistry. He received his B.S. in zoology from Texas A&M University and received his M.Ed. from the University of Houston. Three of the most important scientific discoveries include: the sequencing of the human genome, the Law of Gravity, and the Theory of Relativity. He was involved in Future Teachers in high school and enjoys working with young people. He has been a Girl Scout Co-leader for his daughter and a Boy Scout Assistant Scoutmaster for his sons.

Team Members: **Evan Kornacki**, a senior, is an avid pianist, a National Merit Finalist, a gold medalist in the UIL State Science Competition, and the former president of JETS. Evan's research project at SUNY-Stony Brook was incorporated in the RHIC-PHENIX experiment's presentation at the 2005 International Conference on Nucleus-Nucleus Collisions in Hungary. After completing a Ph.D. in theoretical physics, Evan wants to collaborate with a number of scientists at a major research university, eventually assuming a position to develop and lead research programs in academia at a private institute or national facility. **David Neville** is a junior whose favorite subjects are science and math. He is president of the Computer Science Club and is active in programming competitions. He participates in JETS, Mu Alpha Theta, NHS, and Model United Nations. He is a member of the school's Academic Decathlon team. David is an Eagle Scout who enjoys composing music and playing piano. He plays percussion in the marching band drum line and in the wind ensemble band. David is interested in pursuing a science-related career with a potential engineering major. Junior **Huili (Willie) Xu** has been involved with Science Bowl since freshman year and is vice president of the Taylor chapter of JETS that promotes it. He is also vice president of the Computer Science Club and takes part in many activities such as Model United Nations and UIL events. Beyond academics, Willie plays bass drum and oboe in the band — his favorite class — and has an interest in history and photography. With a lifelong inclination towards both scientific and artistic values, he plans to major in architecture or a related field. **Aditya Yerrapragada** is a 15-year-old junior. His favorite subjects include math and science. He currently ranks within the top five students of his class and is taking several AP courses. Besides Science Bowl, he is also involved in Computer Science Club, Mu Alpha Theta, Quiz Bowl, UIL Number Sense, National Honor Society, and Model United Nations. He also volunteers at a local hospital and mentors bilingual students at a nearby elementary school. He wishes to practice medicine after attending Stanford, Princeton, or MIT.

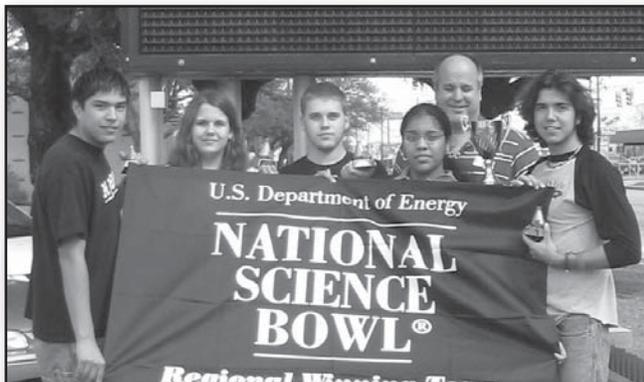
Chance favors the prepared mind.

Louis Pasteur
(1822 – 1892)

John Jay Science and Engineering Academy

San Antonio, Texas

San Antonio – Texas



Left to right: Mark Tovar, Divina Varghese, Donald Carpenter, Rachel Eperly, Dan Sweet (Coach), Matthew Schlaff

Team Coach: **Dan Sweet** is a 1988 Alumnus of Oral Roberts University, Tulsa, OK. Mr. Sweet has taught Biology, Biology PreAp, Astronomy, and Environmental Systems over the past 14 years. Currently, he is a biology teacher at John Jay Science and Engineering Academy. Ever since childhood, this educator has admired the field of education. His teachers from kindergarten to university professors have inspired him to be a teacher. Three scientific discoveries that he considers to be the most important are: the human genome project, Magnetic Resonance Imaging, and the Hubble space telescope. Fishing and camping are some of his hobbies. Go Mustangs!

Team Members: **Donald Carpenter** is a senior. He excels in and enjoys both math and computer science. He especially prides himself in his achievements in the Texas University Interscholastic League (UIL) in the areas of math, science, and computer science, in which he has participated for three years. He is also involved in other extracurricular activities, including marching and concert band, and the jazz band program. He plans to pursue a career in computer programming and is planning to attend the Honors College at the University of Texas at San Antonio. **Rachel Eperly**, a Maryland native, is a senior. During her high school career, Rachel has been involved in many clubs, organizations, and competitions such as National Honor Society, SABEST (robotics competition club), president of the Photography Club, Chess Club, Academic Decathlon, UIL Science, Varsity water polo and swimming, Science Fair (ranked fifth in State), and Junior Academy of Science. She has also been designated an AP Scholar. Rachel is an avid scuba diver and student pilot who has hopes to pursue a career in medicine. **Matthew Schlaff** is a senior who prides himself in his excellence in and love of math and science. Matthew has been involved in the UIL for math, science, calculator, and computer science for three years and the U.S. Academic Decathlon for two years. He will be attending the University of Texas at San Antonio in the fall of 2006 and will major in physics or chemistry. **Mark Tovar** is a senior. He enjoys the subject of math, in particular, calculus. Mark has been involved in numerous extracurricular activities such as UIL, competing in math, science, and calculator since his sophomore year. He was also part of the U.S. Academic Decathlon team for two years. Mark is part of the San Antonio Police Explorers, where he learns what it takes to become a police officer. He plans to attend St. Mary's University and major in criminal justice, hoping to become a detective. Freshman **Divina Varghese** loves the subjects of science and world geography. She has participated in Academic Decathlon for the 2005 – 2006 year. She has also qualified for the State Junior Academy of Sciences. Her future education plans are to join the military and become a doctor.

The First Clarke Law states, if an elderly but distinguished scientist says that something is possible he is almost certainly right, but if he says that it is impossible he is very probably wrong.

Arthur C. Clarke
(1917 –)



Left to right: Shanly Hopkins, Amanda Liew, Michael Savvas, Walter Fairley, Jr. (Coach), Not pictured: Brittani Chapman, Praveen Subramani

La Jolla High School

La Jolla, California

NOBCCChE – Western
Region

Team Coach: **Walter Fairley, Jr.**, earned his B.A. in history from San Diego State University and a Master's degree and credential in education administration from National University. During his nine-year tenure as coach of the La Jolla High School NOBCCChE Science Bowl team, the teams have placed in the top five nationally, and they were national champion in 2005.

Team Members: **Brittani Chapman** is an 18-year-old senior. She has been involved with NOBCCChE since middle school and participated in the National Science Bowl® in 2003. Apart from NOBCCChE, she has been singing since she was in second grade. Brittani sings in the church choir and also participates in the youth leadership program at her church. She is a sales associate at a clothing store in her neighborhood and was on the swim and water polo teams for four years. **Shanly Hopkins** is a 17-year-old senior. She has been participating in the NOBCCChE Science Bowl competition for five years, but this will be her first year participating in the Department of Energy Science Bowl competition. In her free time, she enjoys playing the piano and dancing on her school's step team. She also spends a lot of her time working as a sales associate for Brookstone. **Amanda Liew** is a 15-year-old freshman. This is her first year participating in both NOBCCChE and the Department of Energy Science Bowl competitions. Aside from NOBCCChE, she also participates in Academic League, Speech and Debate, Model United Nations, and cross country. In her spare time, she plays the piano and the guitar. She also volunteers at her church for various activities and enjoys baking sweets for fun. **Michael Savvas**, a senior, has participated in Science Bowl/Science Fair competitions since the 7th grade. He has been a valuable member on two NOBCCChE national championship teams, once at the middle school level and once at the high school level. He enjoys playing tennis in his spare time. Senior **Praveen Subramani** has played on NOBCCChE Science Bowl and Academic League quiz teams for four years, and is an avid participant in other academic organizations on campus, such as Science Team and Math Team. This is his first year competing at the DOE National Science Bowl®. Praveen plans on pursuing computer engineering during his undergraduate education. In his free time, Praveen enjoys playing piano and cooking.

Arguments over grammar and style are often as fierce as those over IBM versus Mac, and as fruitless as Coke versus Pepsi and boxers versus briefs.

Jack Lynch
(1917 – 1999)

2006 National Science Bowl®

Liberty High School

Liberty, Missouri

Kansas City Plant



Left to right: Rosemary Camp (Coach), Ammon Sarver, John Ahlfield, Stephanie Hull, Ryan Stander, Shane Daniel, Mary Coogan (Coach)

The most beautiful experience we can have is the mysterious — the fundamental emotion which stands at the cradle of true art and true science.

Albert Einstein
(1879 – 1955)

Team Coaches: **Rosemary Camp** teaches chemistry and serves as the science department co-chair. She holds a B.S.E. in biology and an M.S.E. in educational administration from Arkansas State University, and an Ed.S. in curriculum and instruction from the University of Missouri Kansas City (UMKC). She credits her teaching career to the influence of her high school teachers. The development of quantum theory, sequencing the human genome, and the advent of polymers top her list of favorite discoveries. Her hobbies include reading and travel. **Mary Coogan** teaches College Chemistry and serves as co-chair of the science department. She holds a B.S. in chemistry and biology (St. Mary College, Leavenworth, KS), a M.A. in physiology & cell biology (University of Kansas), and an Ed.S. in secondary administration (UMKC). Her many outstanding teachers served as inspiration for her career and stimulated her interest in scientific discoveries and explorations. In addition to teaching, she enjoys reading and travel.

Team Members: Junior **John Ahlfield** is a member of Serteens and National Honor Society. His favorite subjects include science (all disciplines) and mathematics. He joined Liberty's Scholar Bowl team as a sophomore, and became a Varsity member and captain his junior year. John hopes to major in chemical engineering at a university. In his free time, he likes to play with his dogs, read Tolkien and the Harry Potter series, and play video games. Junior **Shane Daniel's** favorite subjects include physics, chemistry, and mathematics. He has been a member of Liberty's Varsity Scholar Bowl and cross country teams since his sophomore year. This year will be his third year of FBLA (and hopefully his third year to go to state competition). Shane wishes to go to the University of Chicago, majoring in something related to science. He enjoys long walks on the beach and the smell of freshly picked tangerines. **Stephanie Hull** is a junior. In addition to her love of science, Stephanie enjoys her English and government classes. She participates in Scholar Bowl, Orchestra, National Honor Society, Model UN, Debate, and the National Forensic League. Stephanie is also active in her church youth group and is a Senior Girl Scout in the beginning stages of earning her Gold Award. Stephanie would like to become a doctor, and is considering either UMKC or the University of Chicago. Junior **Ammon Sarver** is the youngest of four children. He enjoys reading, playing Ultimate Frisbee, table tennis, and ballroom dancing, which includes Freestyle Swing, Salsa, and Tango. He loves mathematics and the sciences of chemistry and physics. He is active in his church and Scouting, and is serving in National Honor Society. He plans to serve a two-year mission for his church and upon returning, major in one of the three fields listed above. Senior **Ryan Stander** is returning to his second National Science Bowl® competition. He has been an active member of the Liberty Scholar Bowl team for four years and a member of Science Knowledge Bowl for three years. Ryan is a member of National Honor Society, Young Democrats, and Serteens. He also holds a black belt in Tae Kwon Do. Ryan will attend Truman State University in the fall and will double major in history and political science with a minor in Russian studies.

IT'S YOUR TURN.



Left to right: Vicky Chen, Brian McDermott, Adam Bazari, Ben Michel, Dan Steinbrook, Douglas Grant (Coach)

Lincoln-Sudbury Regional High School

Sudbury, Massachusetts

Boston University

Team Coach: **Jeffrey Leichtman** is a first-year staff member at Lincoln-Sudbury Regional High School. This will be Jeff's first visit to Washington, DC, and he is very excited to see how the competition will unfold. His loves include jazz music, any Boston-related sports teams, especially the Patriots and Red Sox, and readings concerning the universe. Jeff is somewhat worried that he will be mistaken for one of the participants because of his youthful appearance.

Team Members: **Adam Bazari** is a senior. Over the years, through healthcare-related volunteer work in Boston and independent study, he has become very interested in epidemiology and global healthcare. He has been to four different continents, but becoming acquainted and living with his family in Tamil Nadu, India, has perhaps been the most meaningful of his travel experiences thus far. Adam loves music and singing, and he taught himself how to play the guitar several years ago; he particularly enjoys rock operas such as "Tommy" and "Rent," and he participated in his school's production of "Tommy." **Vicky Chen** is a junior. While Vicky devotes much of her time to music, especially the violin, she does not blush to admit that she is a dancer at heart who loves to move to anything with a beat. During her free time, she is most likely dreaming of one day playing with people's minds through "neuroscience research." **Brian McDermott** is a senior and a master of the subatomic world. When he is not in his basement experimenting with his homebuilt nuclear fusion reactor, you can find him cruising at the helm of his speedboat or taking a hike somewhere along the Appalachian Trail. **Ben Michel** is a senior. He hails from the tiny hamlet of Lincoln, MA — a town known for its bovine prowess, not its cell-phone reception. He can usually be found doing something he finds interesting, from watching "Seinfeld" to eating ice cream. In his copious free time, he likes to sit in painfully contorted positions and read physics textbooks, and he plays cello in both an orchestra and a jazz-fusion trio. **Daniel Steinbrook** is a sophomore. He enjoys playing ping pong, basketball, tennis, and wakeboarding, and is on the school cross country team. He owns a clarinet, and plays it in several musical groups. Some of his favorite movies are "The Big Lebowski," "The Good, the Bad, and the Ugly," and the original "Star Wars" trilogy. On TV, he likes "The Daily Show," "Family Guy," and "Reno 911." In school, his favorite subjects are math and English (and science).

Not only is the universe stranger than we imagine, it is stranger than we can imagine.

Arthur Eddington
(1882 – 1944)

2006 National Science Bowl®

Maine School of Science and Mathematics

Limestone, Maine

University of Southern
Maine



Team Coach: **Susan Buraceski** obtained her M.S. degree in zoology from the University of Connecticut. During that time, her “teaching assistant” duties filled her with so much enthusiasm that by the time she graduated, she wanted to continue teaching extremely motivated students. She was lucky to find MSSM, a magnet school for many of the brightest young people she has ever encountered. Her favorite scientific discoveries are: evolution by Natural Selection, the molecular structure of DNA, and the breaking of the Universal Code.

Team Members: **Whitney Bouchard**, a third year senior at MSSM, is from Fort Kent, ME. She has participated in local, regional, national, and international contests with the Math Team and Model United Nations. Not surprisingly, her favorite subjects are math, sciences, and politics. While Key Club president, member of the Graduation and Prom Committees, and a residential proctor, she is also a Varsity athlete in five sports, holding school records in swimming and track. She hopes to pursue a career in criminal investigation upon graduation from the U.S. Air Force Academy. **Justin Haines**, from Auburn, ME, is in his third and senior year at MSSM. He is the president of the Student Senate, the Juggling Club, and the Prom Committee. He is also an active member of the Dorm Council, ACM, Math Team, Graduation Committee, Handbook Committee, and the Science Bowl team. He is a Varsity athlete in cross country and track and field. He intends to enroll at Carnegie Mellon University and major in electronics and computer engineering. **Scott Morrison**, a senior from York, ME, is in his second year at MSSM. He has participated in math competitions at many levels and scored the State team’s highest score at the American Regions Mathematics League. He is an avid student and spends much of his spare time tutoring his peers in chemistry, physics, and mathematics. He is a member of the school jazz band and chorus, and he helped found the school’s student-run a cappella group. He is a space enthusiast and hopes to become part of the Mars Society. He plans to major in engineering at Olin College. **David Witmer**, from Topsham, ME, is a junior in his second year at MSSM. He is an avid musician and was named outstanding trombonist for Division III at the Maine All-State Jazz Festival. David has participated in the national American Regions Mathematics League competition and earned the highest score in Maine on the AMC 10 mathematics exam in 2005. A dedicated athlete, he has played four Varsity sports and hiked 115 miles on the Appalachian Trail. David intends to pursue a career in biochemistry. **Louis Zellinger**, a third year senior at the MSSM, is from Bowdoinham, ME. He has attended the NEAML competition twice, and was a member of the State Championship Math Team in 2005. He was the high scorer for his school’s AMC 10 his sophomore year, and attended the ARML competition his junior year. He plays lead trumpet in his school’s Jazz Band. He is an active member of his school’s Student Senate, is on the Handbook Committee, and is a proctor in the dormitory. He hopes to attend MIT next year and to major in physics.

Science is what
you know. Philosophy
is what you don’t know.

Bertrand Russell
(1872 – 1970)

IT’S YOUR TURN.



Left to right: Andrew Ishihara, Raman Kutty, Matthew Clark, Creston Flemming, Jason Carr, Gerald Friday (Coach)

Marquette University High School

Milwaukee, Wisconsin

Milwaukee School of Engineering

Team Coach: **Gerald Friday** received his Bachelor's degree in science education at the University of Wisconsin, Oshkosh, and his Master's degree in biological science at Michigan State University. It was there, at the Kelloff Biological Field Station, that he developed his passion for the environment. He continues to make contributions in the area of environmental education through presenting workshops at national conventions and in writing educational articles. His three great scientific discoveries are the development of the scientific process, the germ theory, and the molecular design of the gene. When he is not involved in his science studies, you can find him on the dance floor.

Team Members: Senior **Jason Carr** is undecided on a college. Since freshman year, Jason has been successful on a national level in policy debate and has also had success in Lincoln Douglas debate. Outside of school, Jason has been successful with road cycling; he competes on both the national and international level. He works for a local small business and includes cross country skiing among his hobbies. Jason is a member of the Pierre Marquette chapter of the National Honor Society (NHS) and has several awards for academic achievement. Senior **Matthew Clark** is president of the NHS and Science Club as well as a National Merit Finalist. He has been involved in Lincoln-Douglas debate. Matthew enjoys biology and chemistry and works as a researcher in the Department of Neurology at the Medical College of Wisconsin. He has not yet identified his future university, but will likely pursue a degree in biochemistry or molecular biology and desires lifelong involvement in biomedical research. Matt enjoys country music and cheering on his hometown Milwaukee Brewers. Senior **Creston Flemming** has long been interested in science and technology and will be pursuing a degree in a natural science at an undecided university. He currently serves as the vice president of the Science Club and will be presenting research at the Wisconsin JSEHS. Creston spends much of his free time reading, volunteering at a local nursing home, playing board games, and working at a local movie theatre. He also is a strong proponent of open source computer software, such as Linux. Senior **Andrew Ishihara's** favorite subject is math and he has won a number of math contests. He hopes to become an Actuary and attend the University of Wisconsin at Eau Claire. Besides being a member of the Science Bowl team, he is a member of the Chess team and participates in the Math Club. His hobbies are trading card games, playing soccer, and video games. Senior **Raman Kutty** will attend the University of Wisconsin-Madison in the fall. He enjoys backpacking, camping, canoeing, and rock climbing, mostly through his experiences in Scouting; he is an Eagle Scout with a bronze palm. He enjoys tutoring students, notably through the Pierre Marquette Chapter of the NHS, and has debated at the national level. He seeks to become a doctor of medicine, but will not rule out a career in the engineering field. To him, there is nothing better than the pursuit of knowledge and new discovery.

Education is the ability to listen to almost anything without losing your temper or your self-confidence.

Robert Frost
(1874 – 1963)

Marsh Valley High School

Arimo, Idaho

U.S. Department of Energy
– Idaho Operations
Office



Left to right: Joni Sorensen (Coach), Ryan Lish, Colby Sorensen, Brian Bell, Amanda Downs, Matt Hunt

Team Coach: **Joni Sorensen** is the mother of four bright children (her first education). She has two Bachelor's degrees, both from Idaho State University, in business management and elementary education. Joni teaches 6th grade. She loves to read and walk and, if she could do both, she would be content. She was born and raised in Idaho, lived in Utah for several years, but knew she wanted to raise her children as Idahoans and so she moved back. Although it may not be considered a scientific contribution, she considers Gutenbergs' printing press ultimately significant. "Just think how our thinking progressed when everyone could have access to books and other knowledge."

Team Members: Senior **Brian Bell** enjoys many things. He has been in Jazz Band and drama productions for four years and Show Choir for two years. He has twice been a semifinalist in state drama competitions and has attended All-State Choir. He enjoys many subjects, including English, calculus, and history. He plans to attend the University of Idaho in the fall and major in wildlife biology. He enjoys anything outdoors, such as hiking, camping, kayaking, and rock climbing. Brian is an Eagle Scout and is still very involved in scouting. **Amanda Downs** is a senior and in the top two of her class. She serves as yearbook editor, Business Professionals of America secretary, student body secretary, and co-captain of the Varsity cheerleading squad, along with participating in Honor Society. Her favorite classes are math, biology, and chemistry. She plans to attend college and major in human physiology. She wants to attend medical school at the University of Utah and become a pediatric oncologist and aid in the fight against childhood cancer. **Matt Hunt**, a senior, was born in Twin Falls, and has lived in Buhl and now Inkom, ID. Some of his favorite classes are Spanish, computer, and music classes. He is currently involved in his high school Jazz Band, playing trumpet, and the Mar Val singers. He is also a member of the National Honor Society and an Idaho Top Scholar. He plans on going to college after serving a two-year mission for the LDS Church. Matt has been involved in musicals and concerts throughout high school and is an Eagle Scout. **Ryan Lish**, a senior, lists his favorite classes as seminary, media aide, and physics. After high school, he will attend Brigham Young University. After two semesters, Ryan also plans to spend two years on a mission for the LDS Church. Upon returning, he plans to major in aerospace engineering. He is an Eagle Scout and also participates in Business Professionals of America and golf. A major goal in his life is to write a bestselling novel. Senior **Colby Sorensen's** favorite classes are calculus, history, and government. After high school, he plans to attend Boise State University and then go on a mission for the Church of Jesus Christ of Latter-Day Saints. He is student body president at Marsh Valley, plays soccer, and loves to watch football and basketball.

Science is the tool of the Western mind and with it more doors can be opened than with bare hands. It is part and parcel of our knowledge and obscures our insight only when it holds that the understanding given by it is the only kind there is.

Carl Jung
(1875 – 1961)



Left to right: Steven Bronson, Alexander Li, Jason LaRue, Carlos Ramirez, Nathan Nelson, Seated: Dr. Susie Kamons (Coach)

Miami Palmetto Senior High School

Pinecrest, Florida

Lake Brantley High School

Team Coach: **Dr. Susie Kamons** holds a B.S. from Carnegie-Mellon University, and both M.P.H and Dr. P.H. degrees from Columbia University School of Public Health. She began her career as a research analyst for the Social Security Administration. She then joined the research faculty of Harvard University and of Cornell Medical School, where her publications include seminal work in second-opinion pre-surgical screening. She has been a teacher in the Gifted and Science Departments of Miami Palmetto Senior High School for 14 years, and previously taught at Florida University for 8 years. In addition to Science Bowl, she coaches a Chemathon team, which has won county championships for the past five years. She enjoys being part of an enriching community with dedicated peers and a highly motivated student population.

Team Members: **Steven Bronson** is a junior focusing in mathematics both in classes, such as BC Calculus and Statistics, and in competitions, such as FAMAT competitions and the AMC. He recently extended these ambitions to science through participating in the TEAMS competition, whose team received second place, achieving USABO semifinalist status, and now reaching the National Science Bowl®. In the future he hopes to graduate from MIT, majoring in mathematics, and continue on to become a computer programmer. **Jason LaRue**, a junior, is participating in the National Science Bowl® for the second time. He has qualified for both the Math and Chemistry Summer Olympiads, and hopes to qualify for the Physics Camp this year. He owns a few amateur telescopes, and challenges anyone to name anything more beautiful than the first look at a crescent's shadowed mountains. Sophomore **Alexander Li** loves science in general, but his favorite and strongest area is in biology. He is currently a semifinalist in the USABO exams and was a member of the second place regional 2006 Envirothon team. When not in school, he enjoys playing piano, tennis, and badminton with friends, while finding time to help the elderly learn the various uses of a computer. He is not sure which college he plans to attend; however, he does plan to major in either biotechnology or medicine. Senior **Nathan Nelson** plans to attend the University of Florida and is pursuing a chemical engineering major. Though it is a great honor to participate in national competitions, Nathan is a firm believer in the philosophy, "All honors and material things leave with you. It is what you do for others that remains behind, and makes a difference." It is this philosophy that is leading Nathan down the path of science, to help make the world a better place. **Carlos Ramirez**, currently a senior, likes physics, chemistry, and math. He wants to be either a physicist or electrical engineer. He will probably attend Cornell or Georgia Tech. Carlos also plays guitar and computer games, and has been addicted to Sudoku for quite a while now.

Some books are to be tasted, others swallowed, and some few to be chewed and digested.

Sir Francis Bacon
(1561 – 1626)

Mira Loma High School
Sacramento, California

WAPA – Sierra Nevada
Region



Left to right: Brendan Chan, Joe Antognini, Steven Wu, Alexander Chang, Ruslan Kurdyumov, James Hill (Coach)

Team Coach: **James Hill** teaches Honors Chemistry and International Baccalaureate (IB) Biology at Mira Loma High School in Sacramento, CA. Before moving to California, he taught upper level science in public schools and junior colleges in Virginia. James received a B.S. degree from the University of Virginia and an M.S. degree from Radford University. In addition to being the Science Bowl coach, he is also the director of the Sacramento Regional Science Olympiad. In his spare time, he enjoys playing piano, marine aquaria, photography, traveling, and his four Labrador Retrievers.

Team Members: **Joe Antognini** is an IB senior who is currently procrastinating on his Theory of Knowledge essay. He is interested in astrophysics, cosmology, quantum mechanics, and was interested in dinosaurs from the ages of three to five. He enjoys playing piano, juggling sundry expensive objects, and writing essays about lighthouses at 3:00 a.m. **Brendan Chan** is an IB senior who has previously participated in the National Science Bowl®. Favorite pastimes include reading Harry Potter fanfiction, listening to rock music, and feeding barbecue-flavored chips to squirrels. Future plans include becoming a professional writer of Science Bowl participants' biographies and proving beyond a shadow of a doubt that physics is a pseudoscience. In his spare time, he plans to go to college and attend medical school. Senior **Alexander Chang** enjoys playing the guitar and working on his car. His passions lie in the biological sciences and he has future aspirations to go into a specialized field of medicine and hopes to become a practicing physician. He is extremely involved with his community, as he is president of the American Cancer Society Youth Board of Directors and is a lifetime member and president of the California Scholarship Federation/National Honor Society. He also plays tennis for his high school team that has been section champions for the past two years. **Ruslan Kurdyumov** is a superfluous IB senior who enjoys reading, basketball, astronomy, physics, mid-afternoon naps, watching "24," and flaunting his opinions. His plans for the future include getting around to fulfilling his graduation requirements, getting into a college, and studying to become an astrophysicist in search of employment. **Steven Wu** is an IB junior. He is 15 years old and has played piano for 11 of those years. He is the president and founder of his school's Science Club and is currently engaged in two research projects. He was a presenter at the Northern California/ Western Nevada Junior Science and Humanities Symposium. He also plays basketball and golf.

The spirit of sports gives each of us who participate an opportunity to be creative. Sports knows no sex, age, race or religion. Sports gives us all the ability to test ourselves mentally, physically and emotionally in a way no other aspect of life can. For many of us who struggle with 'fitting in' or our identity — sports gives us our first face of confidence. That first bit of confidence can be a gateway to many other great things!

Dan O'Brien
(1966 –)



Left to right, Back row: Jim Camacho, Angelo Mao, David Qiu, Chris Tandiono, Jim Payette (Coach), Front row: Darwin Fu, George Xu

Mission San Jose High School

Fremont, California

Sandia National Laboratory
– California

Team Coach: **Jim Payette** has been teaching biological sciences for 38 years along with teaching photography for 25 years. He is currently teaching AP Biology and Anatomy/Physiology. His hobbies include photography, hiking in Yosemite, tennis, and introducing the world of science to his grandchildren. His decision to become a biology teacher came from his enjoyment of working with young adults and biology. He attended California State University and the University of San Francisco. The accomplishments with DNA, genetic engineering, and the research with the human genome project are a few of his favorite major scientific discoveries. He thanks the Department of Energy and the International School of Science (ISS) for last year's opportunity for his team to attend ISS in Australia.

Team Members: **Darwin Fu** is a senior. He aspires to attend one campus of the UC system and study chemical engineering. In his spare time, he enjoys various strategy games such as chess and reversi. Darwin is also an avid Quiz Bowl player and captains MSJ's NAQT team. Senior **Angelo Mao** is a Presidential Scholar Program candidate and valedictorian who enjoys science, particularly biology. Last summer, he conducted research on increasing the efficiency of bacteria changing organic wastes into natural gas. He became an Intel Science Talent Search semi-finalist for his efforts. Besides science, he listens extensively to opera, serves as news editor for his school newspaper the Smoke Signal, and reads a lot of Yeats. In the future, he plans to pursue a career in biomedicine. **David Qiu** is currently a senior. His favorite subject is math. He is a U.S. Physics Team semifinalist and will also go on to compete in the National Chemistry Olympiad. In addition to Science Bowl, he goes to other competitions such as Science Olympiad and Quiz Bowl. In his spare time, he likes to learn how to play piano on his own. **Chris Tandiono** is a junior who has great passion for science, especially chemistry, biology, astronomy, and ocean sciences. His team placed first in this year's WonderCup, a science competition dedicated to Carl Sagan. Chris is also a semifinalist in this year's U.S. Biology Olympiad. He has been representing his school's Academic Challenge team in science and trivia competitions. Recently, he helped found a Rubik's Cube club at his school. In his spare time, Chris enjoys playing the piano and listening to Rachmaninov's works. In the future, he plans to have a career in chemistry or bioengineering. Senior **George Xu** is a Presidential Scholar Program candidate, and one of MSJ's several valedictorians. His favorite subjects in school are math and science. He is the president of his school's Academic Challenge team. He is also a Varsity swimmer on MSJ's team. He plans to attend school for quite a while after graduating from high school and learn as much as he can. Once he eventually graduates, he wishes to conduct scientific research.

It is the tension between creativity and skepticism that has produced the stunning and unexpected findings of science.

Carl Sagan
(1934 – 1996)

Mustang High School

Mustang, Oklahoma

National Energy
Technology Laboratory
– Tulsa



Left to right: Jonathan Mani, Ted Swang, Daniel Page, Scott Cornaby, Kevin Cosby, Not pictured: Raymond Garner (Coach)

Team Coach: **Raymond Garner** attended both the University of Oklahoma and the University of Central Oklahoma, where he received a B.S. in biology and an M.Ed. He is a National Board Certified Teacher who currently teaches AP Chemistry at Mustang High School. Mr. Garner did not become a teacher to prepare future chemists, rather he is helping his chemistry students acquire a set of skills, behaviors, and attitudes that will help to make them successful in any future endeavors. His list of the greatest achievements in science include: the development of antibiotics, the mapping of the human genome, and the advancement of alternative fuel sources. Thanks sponsors!

Team Members: Senior **Scott Cornaby** is a member of the Science Bowl team. He is tied for valedictorian of his senior class and has taken 10 Advanced Placement courses. Although skilled at math, his true passion is for the sciences. Unsurprisingly, he is an avid reader of science fiction. Scott also enjoys computers and is an amateur programmer. When not reading or writing, he spends time with his family: two supporting parents, two younger sisters, and a little brother. He plans to attend Brigham Young University in Utah for a degree in chemical engineering. **Kevin Cosby** is an honors junior whose favorite subjects are mathematics and science. A member of National Honor Society, Academic Team, and Renaissance, Kevin is also a GATE student for gifted and talented individuals. He plans to attend the University of Oklahoma to major in pre-medicine. An Eagle Scout, Kevin has contributed over 100 hours of volunteer work to the community this academic year. Employed by the family medical facility in Mustang, Kevin is responsible for charting, filing, and general maintenance. In addition, Kevin is currently learning to take and process patient X-rays. Junior **Jonathan Mani** is a member of JETS, National Honor Society, and Academic Team. He volunteers at Integris Baptist Medical Center in Oklahoma City. He enjoys games, sports, and music in his spare time. He plans to attend the University of Oklahoma, but has not chosen a major. **Daniel Page**, a senior, is a valedictorian for his class, and a National Merit Commended Scholar. Daniel is also the parliamentarian for the National Honor Society, a delegate to Boys State, and a member of the Oklahoma All-State Honor Band. He is a member of the Varsity Academic Team, and a captain for Relay for Life. Daniel also leads the youth worship band and is active in worship and education ministries at his church. He plans to attend Oklahoma City University, with a double major in religious studies and music composition. **Theodore Swang** is a senior whose favorite subject is mathematics. Ted is tied for top valedictorian of his class, in addition to being an AP Scholar with Distinction and a Presidential Scholar nominee. He is a member of the Oklahoma delegation of all-stars to the Panasonic Academic Challenge. Ted is vice president of the National Honor Society, captain of the Academic Team, and captain of a Relay for Life team. Ted plans to attend the University of Oklahoma next year, majoring in some field of engineering with a minor in mathematics.

Science cannot resolve moral conflicts, but it can help to more accurately frame the debates about those conflicts.

Heinz Pagels
(1939 – 1988)



Naperville North High School

Naperville, Illinois

William Fremd High School

Team Coach: **Kevin Farrell** teaches physics at Naperville North High School in Naperville, IL. He got an advanced physics degree at the University of Arizona in Tucson and a M.Ed. at Northern Arizona University. He became interested in teaching after becoming a science tutor at the university. There he discovered he liked working with kids, sharing with them his love of science. During his studies at the University of Arizona, he worked in a research laboratory called the infra-red detection laboratory hidden underneath the basketball arena. He believes the three most important scientific discoveries are: Maxwell's equations, Einstein's Photo-Electric Effect, and the polio vaccine. His hobbies are tennis, fishing, hiking, reading literature and scientific magazines, and watching baseball.

Team Members: **Sarah Carden** is a senior. She has had an abiding interest in science since she was a little girl. Other competitions Sarah has participated in are: JETS, WYSE, and National Chemistry Olympiad. While Sarah enjoys all the different sciences, she plans to major and most likely pursue a career in industrial or academic research. Sarah enjoys anything to do with science. She likes Science Bowl because it requires quick-thinking and a broad spectrum of scientific knowledge. Junior **Alex Lapidis** is involved in several academic activities, including ICTM Math Team, JETS, Latin Club, and of course, Science Bowl. He is also on the track and field team, on which he high jumps and runs the 400 meter dash. His favorite TV shows are "Family Guy," "Seinfeld," and "The Daily Show." As a sophomore, he and a few fellow Math Team members bought their coach a fish at their regional meet. **Jeremy Lee** is currently a senior. Aside from Science Bowl, he also is involved in Math Team, Scholastic Bowl, WYSE, JETS, Science Olympiad, and the Elgin Youth Symphony Orchestra. In his spare time, he ponders what it would be like to have spare time. He is unsure of where he is going to college, but plans to major in science. Jeremy likes peaches and apple pie. His favorite science is biology. **Tyler Mitchell** is currently a senior. Aside from Science Bowl, he is also involved in ICTM Math Team, Chess Club, WYSE, JETS, Science Olympiad, choir, and he also plays the piano. He is unsure of his college plans. Tyler's favorite science is physics, and he plans on majoring in engineering. **Benjamin Xie** is a junior. He is 17 years old and enjoys playing tennis. Ben is also involved in many academic teams, such as Math Team, WYSE, and JETS. He enjoys watching "24" and "Law and Order." He would like to visit Australia someday.

Science and art belong to the whole world, and before them vanish the barriers of nationality.

Goethe
(1749 – 1832)

Niceville Senior High School

Niceville, Florida

Florida Panhandle Region



Left to right, Back row: Greg Mitchell, John Jones (Coach), Curtis Rood, Front row: Maryam Mohammed, Yahya Mohammed, Kimberly Rogers

Team Coach: **John Jones** majored in chemistry at Texas Tech in Lubbock, TX. He also attended the University of West Florida and earned his teaching degree, also in chemistry, and middle school sciences and math. He worked on several research projects while in Texas; looking for a cattle feed supplement in a bacterium's polyether antibiotics and doing kinetic studies of rearrangements. Teaching, and the entertainment which accompanies it, has always been his main attraction. His hobbies include travel and sailing. The three most important scientific discoveries are: metallurgy, optics, and DNA.

Team Members: Freshman **Greg Mitchell** is an avid enthusiast of science, especially physics. He has maintained excellent grades throughout his tenure as a student, and currently has a 4.0 GPA. He participates in the Forensics team, in which he has qualified for the state competition and other prestigious competitions. Outside of academics, he enjoys reading and playing video games. After high school, he plans to attend college and earn a degree in aerospace engineering. His greatest dream is to attend MIT and eventually work at opening the space frontier. **Maryam Mohammed**, a sophomore, enjoys all aspects of scientific research and has conducted award-winning research, which has earned her honors at the national (one of Discovery Channel Young Scientist Challenge's 40 finalists) and international levels (fourth place and top 1 percent Intel Achievement Award at ISEF). Outside of academics, her hobbies include cooking, running, and writing. Post-high school, she hopes to attend medical school and practice pediatric medicine as part of the humanitarian organization, Doctors Without Borders. Senior **Yahya Mohammed** enjoys all aspects of math and science, along with participating in competitions. He has competed in five AIME competitions and two ISEFs. His hobbies include chess, gardening, reading, and Age of Empires. Yahya plans to pursue medical research, possibly as a neurosurgeon. He is taking AP Chemistry, AP Environmental Science, AP U.S. History, AP Statistics, Physics Honors as well as research, an externship, and community service. He serves as a captain on both the Science Club and the Marine Science Club competition teams. **Kimberly Rogers**, a freshman, has maintained an A average throughout her entire school career and was named the Most Outstanding Student all three years of middle school. Her favorite subjects include science, math, and Spanish. Kimberly enjoys playing basketball, volleyball, and doing gymnastics in her spare time. She also enjoys drawing and painting in her art class. At the recent Regional Science Fair, she placed third in her division of engineering. Her future plans include majoring in the medical field and becoming a pediatrician. **Curtis Rood** is a sophomore at Niceville, where he and his family are living after having to move there from New Orleans after Katrina. He is taking a heavy load of Latin II, Anatomy and Physiology Honors, Chemistry I Honors, AP English, Algebra II Honors, AP American History, and community service. He first became interested in science and the sea while hospitalized with a broken leg when his dad read him 20,000 Leagues Under the Sea. Listening to the adventures of the Nautilus and Nemo sparked an interest that still burns strong.

In this house, we
OBEY the laws of
thermodynamics!

Homer Simpson
(1956 –)



Left to right: Joseph Chang, Alex Yen, Denise Ye, Len Soloff (Coach), Timothy Hsieh, John Chen, Rishita Shah (Coach)

North Hollywood High School

North Hollywood,
California

Los Angeles Department of
Water and Power

Team Coach: **Rishita Shah** earned a B.S. in chemistry, botany, and environmental science at Bangalore University in India. She has taught AP Biology and AP Chemistry at North Hollywood for two years. Along with Science Bowl, she also coaches Science Olympiad. She considers the discoveries of DNA, the atom, and antibiotics as most important.

Team Members: **Joseph Chang**, a senior, specializes in astronomy and earth science. At school, he serves as president of the Christian Student Union. He is active in politics and as a writer for the school newspapers and editor of the Junior Statesmen of America newspaper. A cross country runner, he has won silver medals in 800 and 1,600 meter races, representing the school. Joseph hopes to study biochemistry at Duke University. **John Chen** is a junior whose favorite subjects are astronomy and biology. This is his second year in Science Bowl. His interests include computer games, tennis, frisbee, and piano. He is also involved in other North Hollywood clubs such as the Math Club, Frisbee Club, and Chess Club. Senior **Timothy Hsieh's** primary interests are math, physics, and violin. In 2005, he was chosen as one of the 24 members of the U.S. Physics Olympiad Team, and this school year, he was selected as an Intel Science Talent Search and Siemens Westinghouse Semifinalist for his research at UCLA on laser-induced cavitation luminescence. He has played violin for 12 years and is a third-year member of the American Youth Symphony, which performed at Carnegie Hall last April. He will attend Harvard University this fall and will most likely major in physics and music. **Denise Ye**, senior, is interested in biology and chemistry. This is her third year as a member of North Hollywood's Science Bowl team. She enjoys playing sports and is the captain of the school's Varsity tennis team. She has played the piano since the age of five and enjoys listening to classical music. She will attend Harvard University this fall and hopes to pursue a career in medicine. Senior **Alex Yen** loves Science Bowl and enjoys studying astronomy, chemistry, and physics. His interests also include basketball, the violin, and cricket. Alex hopes to become an engineer. He is also a member of the Science Olympiad team, as well as an AP National Scholar and National Merit Finalist. This is his third year on the North Hollywood's Science Bowl team.

Science may have found a cure for most evils; but it has found no remedy for the worst of them all — the apathy of human beings.

Helen Keller
(1880 – 1968)

Oak Park High School
Kansas City, Missouri

Kansas City Plant



Left to right: William Meier, Jeffrey Baskin, Jonathon Kinate, Bryan Twarek, Jason Billingsley, and Lario Yerino (Coach)

Team Coach: **Lario Yerino** has loved science since he was a child, exploring, taking things apart, reading, designing/building mechanical and electronic devices... wanting to know how everything works. He trained as an organic chemist, earning a B.S. degree at the University of Cincinnati, and a Ph.D. in organic chemistry at Texas A&M University. He worked 11 years in the chemical industry, and then went into teaching (certification from the University of Missouri, Kansas City). He enjoys sharing how science works with students, and coaching students in science competitions such as Science Olympiad and Science Bowl. His favorite discoveries/inventions are: the vacuum tube, antibiotics, and the internal combustion engine.

Team Members: Senior **Jeffrey Baskin** is active with the band, Scholar Bowl, and Science Olympiad teams. He made the Kansas City All-District band as a euphonium player. He was a section leader in the Oak Park marching band for two years. He is a key contributor on the Scholar Bowl team. Jeff plans to attend the University of Missouri-Columbia or Truman State University and study computer science. **Jason Billingsley** is a senior. He enjoys science, philosophy, and strategy. Jason participates in several events in Science Olympiad in addition to being in Science Bowl. This is Jason's first year in Science Bowl and his first trip out of state. His favorite activities are reading, watching TV, spending time with friends, and playing on his Nintendo DS, which he is never found without. **Jonathon Kinate** is a sophomore who enjoys all things scientific and mathematical. Jonathon is also currently spirit master of the Oak Park Science Club. In his free time, he enjoys reading, exercising, and spending time with friends. Jonathon also participates in Science Olympiad and is involved with many other events. This is Jonathon's first year on the Oak Park A team, and it is also his first trip to the National Science Bowl® tournament. Freshman **William Meier** enjoys reading, working on electrical circuits, computer games, building Lego robots, and watching Mythbusters. Both of his parents work for the Army Corp of Engineers; his dad as a hydrologist and his mother as a program manager of hazardous waste clean-up. Both of their backgrounds have rubbed off on him. This is William's first time in Science Bowl and he is very excited to be competing at Nationals. Senior **Bryan Twarek** holds the first rank in his class. Bryan also serves as senior class president, Student Council president, National Honor Society vice president, and Science Club secretary. He enjoys participating in science competitions and clubs, but also gains immensely from his involvement in football, Peer Helpers, and various school improvement groups. Outside of school Bryan enjoys playing sports, dancing, and playing videogames with friends. He participates in Christian, medical, volunteer, city improvement, and recreational organizations. Next year, Bryan will study biotechnology and Spanish in college, then proceed to medical school in pursuit of his lifelong ambition of becoming a great surgeon.

The most exciting phrase to hear in science, the one that heralds new discoveries, is not Eureka! (I found it!) but rather, "hmm.... that's funny...."

Isaac Asimov
(1920 – 1992)



Left to right: Tom Schroeder, Rickpaul Dhindsa, Mark Koivuniemi, John Talbert (Coach), Michael Harris, Ravi Parikh

Park Tudor School Indianapolis, Indiana

Indiana State University

Team Coach: **John Talbert** graduated from Indiana University with a double major in biology and chemistry. He received an M.S. in secondary education from Indiana. John taught science in Las Vegas from 1985 – 1998. He coached Science Bowl teams at The Meadows School from 1993 – 1998. They won the regional event in 1994. He has also coached tennis for 21 years. The most important discovery was penicillin. He would like to thank Dr. Chi and his colleagues at Indiana State University who do a great job with the Regional event.

Team Members: Senior **Rickpaul Dhindsa** enjoys playing soccer and lacrosse, as well as listening to all styles of music. He does not know where he wants to attend college next year. He is a member of Student Council, the Botany Club, the Chess Club, the Brain Game team, and volunteers in an emergency room. His future plans include a trip to Europe this summer to backpack to every major city. **Michael Harris** is a 17-year-old junior. His favorite subjects are math, economics, computer science, and physics. He pitches and plays shortstop for the Varsity baseball team. He is president of the school chapter of Habitat for Humanity, raising \$60,000 in order to build a house this coming fall. He hopes to attend MIT and study operations management and/or electrical engineering/computer science with a minor in math. He is also an avid gamer with an abiding love of RPGs, one of which he has written himself. Senior **Mark Koivuniemi** is vice president of his class and a National Merit Finalist. He won the Park Tudor Crown Award for Athletic Excellence, Scholarship and Service. He has won two speech meets this year for US Extemporaneous. Mark was awarded the Buchanan Speech and Debate Award for Outstanding Presentation in his junior year. He was Academic All-State and Academic All-Conference in football his senior year. Mark had the AP Scholar with Distinction at the beginning of his junior year and was a High School Forensic Association State Finalist 2004. Mark plans to study biomedical engineering. Junior **Ravi Parikh** is a self-proclaimed genius and a fan of the New England Patriots. The Patriots are one of the classiest, most smoothly run organizations in all of the NFL. With a star-studded cast featuring the illustrious Tom Brady at quarterback and the defensive genius Bill Belichick at head coach, they are a can't-miss attraction in the coming 2006 – 07 NFL season. Ravi's future plans include becoming rich and the president. **Tom Schroeder** is a High Honor Roll sophomore and Eagle Scout. He has competed on the Brain Game, Academic Superbowl, and Debate Teams. His math competition results include fourth place in the Rose-Hulman High School Math Contest, American Invitational Mathematics Exam Certificate of Distinction, Mandelbrot Mathematics Competition Eastern Region sixth place, American Mathematics Competition 10 Distinction Pin, and Indiana Council of Teachers in Mathematics State Mathematics Contest Scholar. Tom is in the school musical, on the United Way of Central Indiana's Youth Leadership Initiative, plays Junior Varsity tennis, and works part-time for the neighborhood association.

Science is organized
knowledge. Wisdom is
organized life.

Immanuel Kant
(1724 – 1804)

**Parkview High
School**
Lilburn, Georgia

Georgia College & State
University



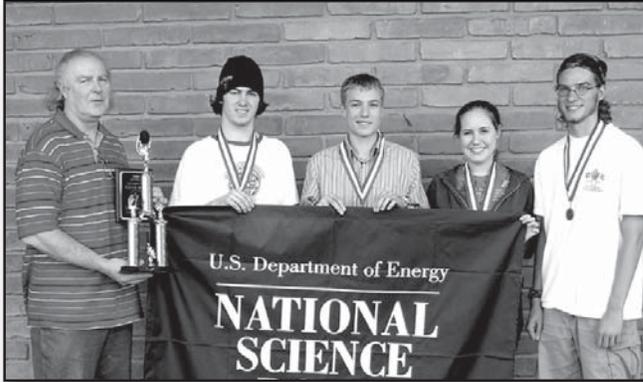
Left to right: Jasshan Mehrotra, Aradhna Seth, Andrew McDowell, Andrew Wilmot, Zane Blanton, Steve Kuninsky (Coach)

Team Coach: **Steve Kuninsky** has been teaching for four years at Parkview High School; he currently teaches Physics and AP Biology. He earned a B.A. in biology at Vanderbilt University and a M.Ed. at Georgia State University. Mr. Kuninsky considers the three most important scientific discoveries to be Gregor Mendel's laws of inheritance, Robert Koch's germ theory of disease, and Watson and Crick's discovery of the structure of DNA. When he is not teaching (or preparing for Science Bowl competitions), Mr. Kuninsky enjoys spending time with his wife, Jennifer. His hobbies include running, reading, and working in the yard.

Team Members: **Zane Blanton** is a junior who actively participates in a variety of activities. He is a member of the Parkview Marching Band and the Math Team. Honor societies in which he is a member include Mu Alpha Theta, Science National Honors Society, and the French National Honors Society. He is considering attending Rice University and majoring in neuroscience. Senior **Andrew McDowell's** favorite subject in school is physics. He plans to study electrical engineering at Georgia Tech. He is the salutatorian of his senior class and is also involved in Science Olympiad. Andrew participates in a number of volunteer organizations, including Beta Club and Mu Alpha Theta. Andrew likes to design systems with microcontrollers and wants to become a professor in the future. **Jasshan Mehrotra** is a senior. He enjoys math and biology and plans to major in biology at the University of Georgia. Some of his extracurricular activities include recreational baseball and a part-time job at Briarcliff Animal Clinic. Jasshan plans to apply to medical school and specialize in anesthesiology. **Aradhna Seth** is proud to be a senior at Parkview. She is an honors graduate and in the top five percent of her class. She is an active member of clubs such as Beta, National Honor Society, and Science National Honor Society. This is Aradhna's second year participating in Science Bowl and her first time advancing to Nationals! Her favorite subjects are biology, anatomy, economics, and literature. In her spare time, she enjoys reading, swimming, running, and spending time with family and friends. Aradhna plans to attend St. Louis University and aspires to become a neonatal pediatrician. **Andrew Wilmot** is a junior. He was born in Ann Arbor, MI, and moved to Georgia around the age of four. Andrew has always been interested in science, due in part to the fact that both of his parents are doctors and his father is a scientist. Zane, a friend since 8th grade, helped introduce Andrew to the Science Bowl program this year. Andrew is extremely interested in physics, and plans to study theoretical physics on some higher level in college. Currently, Andrew spends most of his time reading, chatting online with friends, or playing video games.

Thought is the
blossom; language the
bud; action the fruit
behind it.

Ralph Waldo Emerson
(1803 – 1882)



Left to right: Mike Swingler (Coach), Jared Neuffer, David Bracher, Annie Lee, Eric Eisner

Phoenix Country Day School

Paradise Valley, Arizona

WAPA – Desert Southwest Region

Team Coach: **Mike Swingler** has coached Science Bowl teams at Phoenix Country Day School for the past nine years, placing in the top four teams in the state in seven of the nine years. He has taught physics, astronomy, chemistry and mathematics at both the high school and junior college level for the past 34 years. He received both his B.S. and M.S. in physics from Eastern Illinois University. He considers the discovery of DNA, the microchip, and quantum mechanics to be the most important. He enjoys hiking Arizona, traveling, and spending time with his wife and grandchildren.

Team Members: **David Bracher** is a senior. He is currently co-captain of the Varsity tennis team and a member of the Junior Classical Latin Club. He has won numerous awards at the Latin state competitions. He is also an avid classical music fan and violinist, having studied for nearly 10 years. He has been accepted into the All-State honors orchestra for three consecutive years and is principal second-violin of the Phoenix Symphony Guild Youth Orchestra. His favorite subjects are physics, Latin, and math. At PCDS, he has won musicianship awards, the Latin award, the Harvard Book Prize, and is a member of the Cum Laude Society. **Eric Eisner** is a senior. His favorite subjects have always been the science ones and usually the math ones. Eric received the junior equivalent of the Science Award and the Math Award last year. He ran in Varsity cross country for all four years and was its captain this year. Eric founded and ran the Esperanto Club of his school. Eric will most likely go to MIT next year to study everything possible until he is forced to choose a major. **Annie Lee** is a senior. Her favorite classes are biology and Russian literature. Annie has been a member of the National Charity League since 7th grade, and she plans to continue volunteer work in college. As of now, she still has no idea where she is going to college, but she will probably be majoring in one of the biological sciences. Annie has been an intern at the translational Genomic Research Institute for several years; she recently won, along with a partner, first place in the Siemens Westinghouse Competition for work that she did at TGen. **Jared Neuffer** is a junior. Jared is a competitive debater and an extremely opinionated person in political matters. He also composes music on the piano and is lead trumpet in the school jazz band. And obviously, he enjoys science and math, especially chemistry. His other interests include improv comedy, eating, computer games, and sleeping late. He aspires, much to the dismay of the scientific community, to become a lawyer.

I do not know what I may appear to the world, but to myself I seem to have been only a boy playing on the sea-shore, and diverting myself in now and then finding a smoother pebble or a prettier shell than ordinary, whilst the great ocean of truth lay all undiscovered before me.

Isaac Newton
(1643 – 1727)

Poudre High School Fort Collins, Colorado

WAPA – Rocky Mountain
Region



Left to right: Patrick Chaffey, Logan Wright, Winston Gao, Sam Sun, Sam Elder, Not pictured: Jack Lundt (Coach)

Team Coach: **Jack Lundt**, teaches chemistry at Poudre High School, and graduated from Colorado State University (not CU) with degrees in biology and chemistry. He became a teacher to help students understand, appreciate, and enjoy the practical applications of science and math. A veteran of national competitions, he has taken students to National Science Bowl®, National Ocean Sciences Bowl, and National Science Olympiad. He enjoys hunting and fishing, so his spare time is spent in the Colorado Rockies with his llama pack string. When the snow flies, snowmobiles, skis, and snowshoes take over while the llamas hibernate.

Team Members: **Patrick Chaffey**, a junior, is 16 years old and currently enrolled in the IB program. In addition to Science Bowl, he participates in Science Olympiad. He enjoys camping and hiking in the nearby Rocky Mountains, and practicing his music listening skills. Although he would like to do these more often with his friends, he is usually preoccupied with homework. He is planning to pursue a career in molecular biology or biochemistry somewhere in the future, but has not figured out a specific location as of yet. **Sam Elder**, an IB sophomore, does everything his parents will let him. Besides Science Bowl, Sam takes part in his church youth group, Science Olympiad, the Poudre Symphonic Band, and recreational soccer and baseball, but his real love is for math. Sam runs the Poudre Math Club, is a member of the Colorado ARML team, and has taken numerous math contests. In his freshman year, he was selected for the Math Olympiad Program, a 3-week training camp for the top 50 math students in the nation. Junior **Winston Gao** enjoys talking in third person. When Winston is not pondering the meaning of life, he is doing Science Bowl, Science Olympiad, Lincoln Douglas Debate, analyzing the motifs in the poetry of Browning and Coleridge, and writing short stories about gnomes. Due to the fact that the only sport Winston is good at is competitive power walking (for which there is a huge lack of competition), his competitive spirit must be quelled by Science Bowl competitions. **Sam Sun** is a junior. **Logan Wright** is a sophomore in the IB program. He is interested in aeronautics and astronautics and plans on pursuing a career in aerospace engineering. He often spends his free time pondering the mysteries of flight, such as how to get those strings to hold up large cargo jets. He participates in other science competitions such as National Ocean Sciences Bowl.

Let us not look back
in anger or forward
in fear, but around in
awareness.

James Thurber
(1894 – 1961)



Left to right: Ta-Hsuan Ong, Joshua Hughes, Ingmar Saberi, Thilini Ariyawansa, Dennis Zhang, Barbara Clark Harding (Coach)

Pullman High School

Pullman, Washington

Pacific Northwest Site Office

Team Coach: **Barbara Clark Harding** has held a variety of chemistry-related positions over the years. She received a B.S. in chemistry from Allegheny College, and has done graduate work in education and in pharmacology. She has worked a variety of science-related jobs, including doing the lecture-demonstrations for the Chemistry Department at Washington State University. After more than 10 years of doing “magic” and keeping students awake in chemistry lectures, she returned to teaching at the high school level. She has been at Pullman High School since 1996. Now that her two children are grown, Barbara and her husband enjoy skiing, traveling, and constant house remodeling.

Team Members: Junior **Thilini Ariyawansa** enjoys courses in mathematics and molecular biology. She is a great fan of BBC radio and also enjoys mucking about in a molecular biology laboratory at Washington State University. Thilini is an active member of the International Mornington Crescent Society and is known for her keen mastery of the Hapsburg Feint (under observation of Crockford’s Second Stratagem, of course). She also participates in JSA and serves as the Mayor of the Inland Empire Region. She anticipates a career in genetics or cell biology and elsewhere aspires to become a continuity announcer for Radio Active. **Joshua Hughes** is a junior who loves science, especially geology. In addition to participating in Science Bowl, he is a Varsity swimmer, enjoys acting in school plays, and is an active member of his youth group. He is also very interested in writing, and is currently working on his third novel. Even more important to him is filmmaking. This spring he is planning to complete a feature-length “Lord of the Rings” parody. Josh plans to attend a university in the Pacific Northwest, where he will major in science or film, possibly both. He also has a really cool potato cannon. **Ta-Hsuan Ong** is a senior whose favorite subjects are math and science. His extracurricular activities include Chess Club, Science Bowl, Knowledge Bowl, and tennis. He is currently the treasurer of Key Club. He is planning to attend a four-year liberal arts college. Team captain **Ingmar Saberi**, a junior, prefers to think of himself as a semiprofessional gastro-gnome. Long years’ arduous tempering has wrought in him a keen intellect, a razor-sharp wit, a superb sense of taste, and a profound sense of chivalry. He aspires to buy a large portion of Wales, grow a moustache, and become a thoroughly eccentric and reclusive viscount, although he may have to settle for a career in physics. He is looking forward to finally finding a good bagel on the Eastern Seaboard. **Dennis Zhang** is a senior whose favorite subjects and extracurricular activities are math and science related. He received a National Merit Commendation and two nominations for entry into Who’s Who Among American High School Students. He does not know where he will go to college.

Every great advance in science has issued from a new audacity of the imagination.

John Dewey
(1859 – 1952)

Randolph School

Huntsville, Alabama

Alabama School of Math
& Science



Left to right, Back row: William Plunkett, Kurt von Laven, Middle row: Chenxia Liu, Warren Chan, Robert Gish, Front row: Meryal Smith (Coach), Dr. Rambo (Moderator)

Team Coach: **Meryal Smith** earned a B.S. from Louisiana State University and a M.Ed. from Alabama A&M in science education. She has been a chemistry teacher for 38 years; 7 of those at Randolph School. She also coaches the Science Olympiad team and sponsors the Science Club. She was influenced to pursue a career in teaching by her great-grandmother and her freshman college chemistry professor. She has done research with rocket fuels and corrosion of metals at Redstone Arsenal for four summers. She thinks the three most important scientific discoveries are: the human genome project, antibiotics, and transistors.

Team Members: Senior **Warren Chan** worked as a materials science researcher at the University of New Mexico in Albuquerque this past summer. He is active in the Science Olympiad, in the Huntsville Youth Symphony as principal violist, as church violinist, and is serving as chairman of the Red Cross Youth Committee of Madison County. He served as Junior Class co-president. His hobbies include reading financial news and current events and listening to salsa music. He plans to attend California Institute of Technology (Caltech) and major in chemical engineering. **Robert Gish** is a senior and intends to major in physics at Vanderbilt University. After undergraduate studies, he plans to either go to medical school or continue in physics. He has been named a semi-finalist in the Chemistry and Biology Olympiads, and he anticipates making it to Nationals with the Science Olympiad team. His hobbies include paintball, table tennis, skiing, football, and watching B-grade movies. Rob also enjoys “pwning n00bs” in Blitz. Senior **Chenxia Liu** is considering entering biomedical engineering at MIT or Johns Hopkins. Besides getting a lack of sleep, she also enjoys perpetually spending weekends at academic competitions, *e.g.*, Science Olympiad, Scholar’s Bowl, and other various early-morning gatherings. She was named a semi-finalist in both the Biology Olympiad and the Physics Olympiad. Her hobbies include plinking around on her piano and not super-gluing herself to model planes, or just having the time to sit around and read. **William Plunkett** is a senior who enjoys hammering: the keys of the pipe organ, on the strings of his mandolin, and nails for Habitat for Humanity. He tries to swing a racket whenever he can find an empty tennis court, and while off the court he swings on the dance floor in an attempt to chivalrously court girls. As a fan of Garrison Keillor, he always appreciates a laid-back laugh, a jovial joke, an innovative intellect, and witty wordplay. He plans to study architecture and engineering at Princeton University. **Kurt von Laven** is a sophomore and would like to attend Harvard, MIT, Caltech, Stanford, or Princeton, perhaps majoring in cosmology. One day he hopes to become an astronaut. He plays the piano and the baritone, is a member of the Foreign Language Club, Randolph Environmental Awareness Program, Tri-M Music Honor Society, and National Honor Society. He is a member of both the Science and Math Clubs. Kurt enjoys the outdoors, listening to music, reading, writing, and chatting online with his friends.

Fiction is the truth
inside the lie.

Stephen King
(1947 –)



Left to right: Gabe Rensch, Phillip Birgenheir, Joshua Swanson, Jacob Boschee, Jeff Lang, Michael Slaback (Coach)

Rapid City Central High School

Rapid City, South Dakota

WAPA – Huron

Team Coach: **Michael Slaback**, team coach and chief bottle washer for seven years, is looking forward to his second trip to DC. He still coaches the Knowledge Bowl team, coordinates the school for the Chadron Inter-High School academic competition, compiles stats for the football team, and works one-on-one with the school's most reluctant scholars. He also works full-time evenings and weekends with Stepping Stones as an independent living specialist helping to transition troubled youth into independent living. During the summers, he is a job coach with the school system working with special education students weeding rose beds. His collection of vampire movies now numbers more than 475. That is a lot of blood suckers.

Team Members: Senior **Phillip Birgenheir** was a master debater throughout high school, in both Varsity policy and extempore debate. In 2005, he competed at the Nationals in Philadelphia. Finally, his rebuttal skills died and he joined Knowledge Bowl at Central High School. He enjoys physics, calculus, and social studies classes. Outside of school, he lives a humble life skateboarding, painting, and lernen viele sprachen. Senior **Jacob Boschee's** favorite subjects are science and math. His current in-depth study is differential equations. He has maintained a 4.0 GPA since his freshman year. He is the quartermaster of his Boy Scout troop, and achieved the rank of Eagle Scout this year. He intends to attend the South Dakota School of Mines and Technology where he will major in physics and computer science. His dream is to work at the Jet Propulsion Laboratory and help develop new space travel methods. His favorite color is green and he enjoys playing "Magic: The Gathering" in his limited free time. **Jeff Lang**, the team's only sophomore, has attended Rapid City Public Schools since kindergarten. He has been in the TAG program since 1st grade. He has also been in accelerated classes since the elementary grades. He plans to attend MIT after graduation and earn a nuclear engineering degree. Senior **Gabe Rensch** is 16 years old and enjoys the finer things in life: spending time with friends, good tunes, and instant noodles. His primary academic interests are in the fields of chemistry, math, and physics. He looks forward to returning to Nationals this year and hopes that he and the rest of his much-improved team can surpass last year's achievements. Senior **Joshua Swanson** has attended Central High School since the second half of 8th grade. He has been involved in Knowledge Bowl and subsequently Science Bowl since the 6th grade, and was the team captain for Science Bowl in 2005 and again this year. Josh deeply enjoys mathematics — particularly advanced algebra, portions of calculus, and complex number theory. He is an avid programmer and also relaxes by playing the piano.

Creativity is a type of learning process where the teacher and pupil are located in the same individual.

Arthur Koestler
(1905 – 1983)

Red River High School

Grand Forks, North
Dakota

WAPA – Bismarck



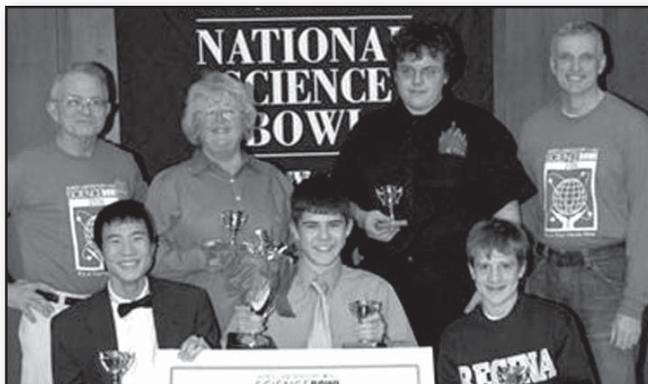
Left to right: Dave Nowatzki (Coach), Greg Brockman, Anil Kulkarni, William Hall, Katie Duchscherer, Angie Orluck, Rob Owens (Coach)

Team Coach: **Rob Owens** graduated from Jamestown College. He is currently teaching biology and has taught physical science, biology, chemistry, and anatomy. He decided to become a teacher after he attended a year of law school. He decided he could influence more people in a classroom than a courtroom. The three discoveries he feels are most important are: fire, the understanding of DNA, and the wheel. He is an avid hunter. He is married to his wife, Ann, and has two children; Seth, age 5 and Sydney, age 2.

Team Members: **Greg Brockman** is a junior. He attends most of his classes at the University of North Dakota for dual credit. Upon reaching his true college years, he plans to triple-major in math, physics, and philosophy (incidentally, he also plans to have no life). He is currently performing math research in the limiting behavior of Ducci sequences over vectors of arbitrary reals, and if anyone has any idea what this means, he highly suggests that he or she talk to Greg. Also, last year he attended the U.S. National Chemistry Olympiad Study Camp, which was pretty cool. **Katie Duchscherer** is a freshman. Her favorite subjects are Algebra II, physical science, and art. She has received many math awards, including first place honors in the Red River and UND math track meets. Katie is in Freshman Choir and Chamber Choir, an auditioned ensemble, at her school. In addition to the Science Bowl, Katie has participated in the Knowledge Master Open for many years. Her career goal is to be an astronomer or astrophysicist. This is the first year that Katie has been on a Science Bowl team. Junior **William Hall** lives in Grand Forks, ND. He enjoys playing trumpet in concert and jazz settings. Will is active in National Honors Society and participates in Knowledge Masters as well as various math activities. **Anil Kulkarni** is a junior who enjoys swimming and computers. He participates in several clubs including Science and Math Club, as well as National Honor Society. He was elected an officer of the school's local chapter of the Technology Student Association. He has won third place statewide in computer troubleshooting. Anil is a member of the Alliance of Security Analysis Professionals and a nominee for Microsoft's Most Valuable Professional award for his volunteer work. Anil plans to attend college, majoring in computer science. Sophomore **Angie Orluck** enjoys all science classes and band. She is very involved in her school's music program. Angie is first chair in band and in jazz band. She lettered in band in 2005 and received top ratings for solos in competition. She was also selected into the All-State band for 2006. Angie has participated in Student Council, Key Club, Science Bowl, and hopes to be accepted in the National Honor Society. She is looking forward to college and majoring in radiology.

It is the tension between creativity and skepticism that has produced the stunning and unexpected findings of science.

Carl Sagan
(1934 – 1996)



Left to right, Front row: Phil Shiu, Peter Montag, Stephen Berg, Back row: Tom Barton (Ames Laboratory), Barbara Reilly (Coach), Josh Hove, Steve Karsjen (Ames Laboratory Coordinator)

Regina Education Center

Iowa City, Iowa

Ames Laboratory

Team Coach: **Barbara Reilly** earned a B.S. in biology from Clarke College in Dubuque, IA, an M.S. in biology from Creighton University in Omaha, NE, and a Talented and Gifted Endorsement from the University of Iowa in Iowa City, IA. She has been a science teacher for 33 years in Iowa and Nebraska. She presently teaches science classes, is the talented and gifted coordinator for grades 5 – 12, and mentors the AP Online Academy at Regina High School. Barb enjoys reading, traveling, watching baseball, and scrapbooking when she is not taking students to interschool academic competitions.

Team Members: Freshman **Stephen Berg's** favorite class is biology. In addition to his regular course load, Stephen is taking Chinese at the University of Iowa. Stephen is a member of Regina's second place State cross country team. He will also run the mile on the track team this spring. Stephen likes to run and read in his spare time and is particularly fond of hiking in the mountains of the state of New York. He thinks of himself as a "moss" expert and enjoys learning as much about mosses as he can. Senior **Josh Hove** is a National Merit Finalist who is active in math competitions and quiz bowls. Josh is an avid reader who is undecided about next year's plans. Josh is involved in student ministry at his church and has traveled on missions to Mexico and the Ukraine. Josh is currently learning how to play the electric bass guitar. Junior **Peter Montag** currently is taking Quantum Mechanics (his fourth physics course) and Differential Equations (his fourth math course) at the University of Iowa in addition to his regular course load at Regina. Peter has participated in math competitions at the state and national level. Peter is a member of Regina's wrestling team. He is currently preparing a SEM/Satchel project, which studies the effects of cosmic rays on material properties, to fly on the space shuttle. Captain **Phil Shiu** is a senior who is involved in a variety of activities. He was recently named a National Merit Finalist, has earned National AP Scholar recognition, and will complete 13 Advanced Placement courses by graduation. His current plan is to attend Stanford in the fall and pursue a degree in biology. Phil spent last summer as a Howard Hughes assistant in a University of Iowa lab that is studying retinitis pigmentosa. Phil enjoys reading and writing for the school newspaper. He is also a member of the State 1A Championship football team.

Happiness is not in the mere possession of money; it lies in the joy of achievement, in the thrill of creative effort.

Franklin D. Roosevelt
(1882 – 1945)

2006 National Science Bowl®

Renaissance High School
Detroit, Michigan

NOBCCHE – Midwest
Region



Left to right, Front row: Lenae Wills, Cynthia Bridges (Coach)
Back row: Dijon Richardson, Kiara McCoy, LaDiamond Stanley, James Woods

Team Coach: **Cynthia Bridges** has been teaching at Renaissance High School (National Blue Ribbon School) for 16 years. She teaches INS, AP Chemistry, and Advanced Chemistry. She is a graduate of Clark Atlanta University where she obtained a B.S. in Chemistry, and of University of Massachusetts where she obtained her M.Ed. Her decision to teach stems from a desire to see more minority students pursue a chemistry major. In addition to teaching, this devout Christian is the youth director at her church. She is a proud mother of two boys. Her hobbies include bowling, aerobics, skiing, and arts and crafts.

Team Members: **Kiara McCoy** is a junior. Her favorite subjects at school include life sciences, mathematics, Global Issues, and marketing. Besides her commitment to her Science Quiz Bowl team, she is also the corresponding secretary of her graduating class and dances for her school. Outside of school, she is an active member in her youth program "Leaders of Tomorrow" and volunteers at the local hospital (Providence Hospital). After high school, she is planning to major in business management at Howard University in hopes of one day becoming a successful entrepreneur. **Dijon Richardson** is a junior. He exemplifies leadership qualities amongst his peers and takes his school studies very seriously. His favorite subjects include: pre-calculus, chemistry, Advanced Placement Government, and economics. Not only does he excel in his studies, but he excels in his athletics. He is a current member of Varsity baseball and he was a member of the Varsity basketball team. He is also a member of the Detroit Science Quiz Bowl team. He plans to become a corporate lawyer and retire saving the lives of others. **Lenae Wills** is a junior. Besides being captain of one of her school's Science Quiz Bowl teams, she is also an active member of the Varsity Cheer Team, Varsity soccer team, Renaissance Engineering Mathematics and Technology Club, and Students Against Destructive Decisions Club. Outside of school, she is a member of the Detroit Urban League. She also excels in academics. Her favorite subjects include calculus, chemistry, and biology. She has Advanced Placement or Honors classes in all three of these subjects. In the future, she plans to major in chemistry at Clark Atlanta University. Junior **James Woods'** favorite subjects at school include economics, mathematics, Global Issues, and biology. Other than Science Quiz Bowl, James is a dedicated player on his school's Varsity baseball team. As far as his future education and career plans, he intends on majoring in business administration at Howard University to move one step toward achieving his goal of managing a successful corporation.

Creativity requires the
courage to let go of
certainties.

Erich Fromm
(1900 – 1980)



Left to right: Melchizedeke Martin, Reginald Jones, Tomas Vazquez-Simmons, Aaron Frazier, Not pictured: Karen Iglesia (Coach)

RIT PRISSM

Rochester, New York

NOBCCChE – Northeast Region

Team Coach: **Karen Iglesia** is a unique individual who owns a tutoring company that specializes in math and science. She ran the UR/Baden Street Engineering program, exposing students to math, physics, biomedical, chemical, mechanical, and electrical engineering. Her area of expertise is chemistry, because of the chemical engineering background. There is a tremendous amount of scientific discoveries, but she is particularly intrigued by stem cell research and fuel cell research. She would like to see hands-on science projects that appeal to the everyday students, such as how roller coasters work, the science behind sneakers, etc.

Team Members: Senior **Aaron Frazier** is the team captain of both the PRISSM Math and Science Teams. Aaron is a prosecutor and defense attorney in the Rochester Teen Court program. As a member of the Student Government, he represents the 2006 graduating class. Aaron was commended for his tremendous community service, receiving the Frederick Douglass award for community service. Aaron is ranked fourth in his class and plans to study law in college. **Reginald Jones** is a senior at the Edison Tech School of Engineering. He is ranked in the top 10 percent of his class. Reginald was an officer in the Baden Street Engineering Prep Program for three years. Reginald is a member of the Science and Technology Entry Program and also a member of the PRISSM Science Team. Reginald completed several hours of community service with Baden Street Settlement. As a member of the National Society of Black Engineers, he also serves as vice president of the Rochester chapter. Reginald plans to attend Tuskegee University and major in aerospace engineering. Reginald is a member of the track team. **Melchizedeke Martin** is a graduating junior from Franklin School of Finance. Mel will be completing high school in three years. As a member of the PRISSM team, he competes on both the Math and Science Teams. **Tomas Vazquez-Simmons** is a junior at the School of the Arts and a member of the PRISSM Math Team. Tomas plays center on the School of the Arts basketball team. Tomas scored in the top eight percent nationally on the PSAT in October. He is currently taking advanced classes. After graduation, Tomas would like to attend Syracuse University and major in architecture.

All children are artists.
The problem is how to
remain an artist once
he grows up.

Pablo Picasso
(1881 – 1973)



**RiverStone
Community School**
Boise, Idaho

Batelle Energy Alliance
– Idaho



Left to right: Alex Ide (Coach), Katherine Reardon, Jack Crow, Keegan Poppen, Katrin Larsen, Jonathan Holmes, Jennifer Schmutzler (Coach)

Team Coaches: **Alex Ide** teaches Biology and IB Biology, and is the science department chair at RiverStone Community School. He holds a B.S. in microbiology and genetics from The Ohio State University and a M.S. in cell biology of cancer from Boise State University. Alex enjoys all outdoor recreation, including backpacking, skiing, biking, and river sports. **Jennifer Schmutzler** has been teaching IB Chemistry, Environmental Systems, and Physical Science for four years. She earned her B.S. at Trinity College in Hartford, CT, and has studied abroad in New Zealand. She coaches lacrosse and spends time in the outdoors in Idaho during her free time. Her favorite thing about teaching is doing labs and hands-on activities with her students. She enjoys teaching at RiverStone Community School because of its commitment to internationalism and environmental education. Her favorite female chemist in history is Dorothy Hodgkin because she was a brilliant crystallographer and was committed to promoting peace.

Team Members: **Jack Crow** is a sophomore. His favorite subjects include art, history, and science. He is involved in yearbook and a Ukrainian folk arts club. In his spare time, he enjoys drawing, reading, and praying that Chuck Norris does not come for him in the night. As for college plans, Jack would like to attend an art school and pursue a career in ceramics. **Jonathan Holmes**, a junior, lists his favorite subjects in school as math, science, and history. He would like to attend Cambridge or Cal Tech upon graduation from high school. Jonny has been involved in National History Day, Academic Decathlon, AMC, and enjoys studying Russian and French. Junior **Katrin Larsen** loves living in Boise. She plays soccer on her school team, known as D.E.M. (Don't Expect Much). She also practices Tae Kwan Do and has attained a black stripe. She likes to play flute and the piano. She hopes to go to Stanford, but if not, a liberal arts college on the West Coast would be excellent. She hopes to study history and Asian studies, along with Spanish and Japanese. She likes her classes in history, Spanish, art, English, and chemistry. The only class she does not like is math. "It is very difficult," she says. Junior **Keegan Poppen** enjoys math, chemistry, and biology and hopes to attend MIT, Stanford, Penn, Yale, Cal Tech, or possibly Princeton. He also enjoys filmmaking, academic competitions, and watching Chuck Norris beat up the bad guys. He plays soccer and is a member of his school's Academic Decathlon team and numerous local service organizations. Art and English are the favorite subjects of sophomore **Katherine Reardon**, which lead many to wonder how she got involved in a math and science competition. Science is a long-time interest, but her real "sciency" passion is animals. She volunteers part-time at the Boise Zoo and plays host to a plethora of animals, including a large angry parrot who loves Katherine and no one else. In her spare time she knits and watches reruns of "Walker, Texas Ranger" so that she can root for Chuck Norris. She will be spending this summer the same as last year — attending the Brown University summer program studying creative writing.

It is worth mentioning,
for future reference,
that the creative power
which bubbles so
pleasantly in beginning
a new book quiets
down after a time,
and one goes on
more steadily. Doubts
creep in. Then one
becomes resigned.
Determination not to
give in, and the sense
of an impending shape
keep one at it more
than anything.

Virginia Woolf
(1882 – 1941)



Left to right: Joe Manzano, Carlos Garza, Nestor Rodriguez, Jesus Abrego, Not pictured: Tom Kuhn (Coach)

San Benito High School

San Benito, Texas

University of Texas – Pan American

Team Coach: **Tom Kuhn** teaches Pre-AP and AP Chemistry at San Benito High School way down at the southern tip of Texas. He has enjoyed science his whole life, and takes particular pleasure in teaching the AP classes. Tom has been teaching for over 30 years and has no immediate desire to stop. He attended University of LaVerne and Cal Poly University, majoring in chemistry and biology. The advances in science since he graduated from college never cease to amaze him. The advances in our understanding of the chemical and biological processes of life are leading to amazing things, and are going to have a huge impact on generations to come. He is very happy to be bringing students to the National competition, and doing his part in promoting science education in our schools.

Team Members: **Jesus Abrego** is a graduating senior, as well as a college student with 52 college credit hours. He is still undecided about what college to attend after high school, but the University of Texas at San Antonio is sounding pretty good. His hobbies and interests include playing hacky sack and having fun with friends. The reason he is team captain is because he won rock-paper-scissors against the other members. He is warden of NHS and vice president of an engineering-based program. He follows the philosophy, "A man's reach should exceed his grasp, or what's a heaven for?" He met Tim Smith, the weatherman, once and thinks unicorns are awesome. **Carlos Garza** is a junior. His favorite subjects include math and science, especially biology. Carlos likes playing football and basketball with his friends. Carlos is currently ranked third in his class, and is very involved in school and community. He is a Student Council attendance officer, BPA officer, NHS member, HOSA member, and in UIL Science. Carlos is a volunteer at the local hospital and has accumulated over 500 hours. Carlos plans on attending the University of Texas at San Antonio and major in biology/pre-medicine. Carlos would ultimately like to become an emergency medicine physician. Senior **Joe Manzano** just recently turned 18, and is looking forward to attending the University of Texas at San Antonio in the fall. His hobbies include playing baseball, basketball, hacky sack, and hanging out with friends. He is looking forward to competing in the National competition. **Nestor Rodriguez** is a junior whose favorite subjects are science and history. Nestor is in the top five percent of his class. He has been BPA's treasurer for three years and in UIL. He plans to attend the University of Miami and obtain a Master's in business. He has volunteered in his city and community. His hobbies are running and playing video games with friends. Nestor has a dream of becoming a business man and to succeed.

One of the advantages of being disorderly is that one is constantly making exciting discoveries.

A. A. Milne
(1882 – 1946)

Santa Monica High School

Santa Monica, California

Jet Propulsion Laboratory



Left to right: Kim Lievense (Jet Propulsion Laboratory Coordinator), Benjamin Lucas, Dimity Petrenko, Bennett Rankin, Ingo Gaida (Coach), ZeNan Chang

Team Coach: **Ingo Gaida** graduated from UCLA with a B.S. in biology, a M.Ed., and an M.S. in ichthyology and evolutionary biology. During summers and breaks, he enjoys working at Amgen, traveling, fishing, hiking, and riding sea turtles. He believes that Einstein's theories of relativity and Maxwell and Faraday's work in electromagnetism are important scientific discoveries.

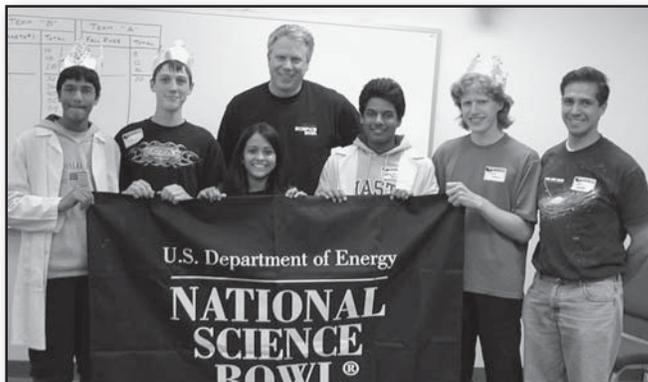
Team Members: **ZeNan Chang** is a senior. **Benjamin Lucas** is a junior. **Dimitry Petrenko** is a sophomore. **Bennett Rankin** is a junior.

Every artist wants his
work to be permanent.

But what is? The
Aswan Dam covered
some of the greatest
art in the world. Venice
is sinking. Great books
and pictures were lost
in the Florence floods.

In the meantime we
still enjoy butterflies.

Romare Bearden
(1911 – 1988)



Left to right: Reuben Britto, A.J. Cottengim, Manasa Tripuraneni, Jim Feider (REU), Nevin Britto, Ethan Copitch, Leo Perez (Coach),
Not pictured: Brandon Good (Coach)

Shasta High School

Redding, California

City of Redding
Electric Utility

Team Coaches: **Brandon Good** graduated from the University of Nevada, Reno, with a B.S. in biochemistry. He enjoys coaching and playing soccer, hiking, hunting, fishing, building, and most sports. The three most important scientific discoveries are: DNA, computers, and electricity. **Leo Perez** earned his B.S. in molecular biology and a minor in chemistry at Humboldt State University. His graduate work included research and experimentation with Baculovirus and the *C. elegans* spe-26 gene. He has been at Shasta High School for seven years, and has previously taught Chemistry and AP Chemistry as well. He advises the Science Club and coaches basketball and track. The three most important scientific discoveries are: electricity, the structure of the atom, and penicillin.

Team Members: **Nevin Britto**, a senior, is founder and president of the Math Club, president of the Science Club, and captain of the Varsity tennis team. His favorite subjects are biology, chemistry, physics, calculus, and psychology. Nevin hopes to attend Stanford, Harvard, Duke, or U.C. Berkeley, major in biomedical engineering, and become a physician. He has volunteered over 300 hours at Mercy Medical Center and likes to play basketball and video games to relax. He is a volunteer tutor at his school in history, Spanish, biology, and all levels of math. **Reuben Britto** is a freshman whose favorite subjects are chemistry, biology, geometry, and algebra. He is vice president of the Math Club. He hopes to attend MIT, Stanford, Harvard, Princeton, or U.C. Berkeley and major in software engineering. He is a member of the tennis team and volunteers his time tutoring high school students in chemistry, algebra, and geometry. His favorite pastimes are playing video games and building Legos. Junior **Ethan Copitch** graduated at the top of his Junior High science class and won the school's science award. Since then, he has expanded his knowledge of science dramatically, having taken biology, chemistry, and physics. He has participated in Science Olympiad and Science Bowl, is vice president of the French Club, a member of the Science Club, and a Varsity athlete on the track team. Ethan plans to double major in neurobiology and nanotechnology at a strong science based school. Sophomore **A.J. Cottengim** is in the AP program and is currently taking biology. He is a member of the California Scholarship Federation and the Croquet Club. A.J. is an active member in his Youth Group at Westside Church. As a Boy Scout, he is currently working on his Eagle Project. He is the leader of his local Order of the Arrow chapter, an honor society in Boy Scouts. A.J. plans to earn a Master's degree in either chemistry or physics, and hopes to become a science teacher. **Manasa Tripuraneni** is a 17-year-old senior who is involved with many activities, including Mock Trial, Science Club, and Aeronautics Club, of which she is the president. She is an attorney for the Mock Trial Team. Manasa is also involved with snowboarding, tennis, violin, and Karate. She is actively involved with research and volunteer work in the community. Manasa plans on attending a university on the east coast to become a neurologist.

Generally speaking, men are influenced by books which clarify their own thought, which express their own notions well, or which suggest to them ideas which their minds are already predisposed to accept.

Carl Lotus Becker
(1873 – 1945)

**Sidwell Friends
School**
Washington, District of
Columbia

U.S. Department of Energy
– Headquarters



Left to right: Cameron Soulis (Coach), Thomas Segall-Shapiro, Nick Williams, Meredith Case, Dima Kislovskiy, Marshall Strother, George Lang (Coach)

Team Coach: **George Lang** received a B.A. degree in physics from Oberlin College and has done graduate work at various times at the University of Maryland in College Park. He has been teaching physics and mathematics for 39 years at Sidwell Friends School in Washington, DC. Over the years, many of his students have gone on to do distinguished work in science, some even getting Ph.D.s in physics (someone has to do it). Probably his most famous student is Bill Nye. George is married and, at the present time, has six dogs. He enjoys taking (some) of the dogs up to his farm in nearby Pennsylvania.

Team Members: Along with her coursework in physics, chemistry, and calculus at the AP level, **Meredith Case**, a senior, pursues interests in world history and international relations. After spending the past two summers in East Asia — first in Tokyo and then in Shanghai — Meredith now plans to merge these fields of study at Amherst College in the fall. In addition to playing competitive soccer for more than 10 years, Meredith is active in both her local and school communities as a regular volunteer at a nearby hospital and as a captain of her school's "It's Academic" and Varsity softball teams. Senior **Dima Kislovskiy** was born in Kiev, Ukraine, and immigrated to the U.S. when he was three. His hobbies include swimming, golf, racquetball, and rowing, as well as interning at his father's law firm over the summer. Dima hopes to attend either Harvard or Yale University and pursue a career in engineering or law. **Thomas Segall-Shapiro** is a senior whose favorite subjects are biology and computer science. He is a member of Sidwell's tennis team, Chess Team, Student Democrats Club, and Construction Club, which does volunteer building/remodeling around DC. He also participates in various math and science competitions with his school, such as JETS, the Newton Mathematics Competition and, of course, the National Science Bowl®. While Thomas does not have any definite plans for college, he wants to study biological engineering and computer engineering, and hopes to find a job that involves both of these fields. **Marshall Strother** is a senior. In addition to Science Bowl, he wrestles and runs track. He is also on his school's "It's Academic" team and Honor Committee. Marshall decided to participate in Science Bowl as an extension of "It's Academic." He hopes to major in molecular biology in college. **Nick Williams** is an energetic senior in his 14th year at Sidwell Friends School. During a 2nd grade counting competition, where he was the only one in his class to be able to read numbers in the billions, he realized that he liked competitive mathematics and science. To this day, he enjoys competitive activities such as math meets or JETS. For fun, he pitches for the baseball team, plays guitar in a band, and enjoys mountaineering during the summer. Nick will be studying engineering at college next fall.

I still find each day
too short for all the
thoughts I want to
think, all the walks I
want to take, all the
books I want to read,
and all the friends I
want to see.

John Burroughs
(1837 – 1921)



Left to right: Doug Driver (Coach), Doug Hooker, Nick Hansen, Joshua Suresh, Andrew Scacco, Ian Nappier, Corey Hessen, Srikar Appana, Mary Bartholomew (Coach)

Smoky Hill High School

Aurora, Colorado

National Renewable Energy Laboratory

Team Coaches: **Mary Bartholomew**, a teacher for 24 years, completed a M.S. degree in chemistry at the University of Denver. She teaches Honors and AP/IB Chemistry. Her mother, who was also a chemistry teacher, is her mentor. Her oldest son benefits from technological developments in computers and neurology that enable him to hear with a cochlear implant. She is an advocate for individuals with a hearing loss and is a member of several boards and coalitions to support the deaf and hard of hearing. In her spare time she loves to read and garden. **Doug Driver** is in his 10th year of teaching biology and physical science. Because of his love for the outdoors, Doug worked for 16 years in sporting goods retail management, enjoying the people interaction and participation in the sports managed. Doug taught scuba for 13 years and the experience influenced him to become an educator. Doug returned to school and earned a degree in science education with an emphasis in biology.

Team Members: **Srikar Appana**, an IB senior, participates actively in a diverse variety of activities. He not only enjoys playing chess and reading about science, but also likes to participate in Seibukan Karate. His favorite subjects include math and science, but he also likes history. He is known as a bowl person for participating in many bowls including Science Bowl, Ocean Bowl, Knowledge Bowl, and Japan Bowl. He plans to attend the University of Colorado at Boulder and wants to major in astrophysics and statistics. **Nick Hansen**, a senior, is a future engineer with an unquenchable thirst for a [meta]physical understanding of the world. An avid member of the Debate Team, he spends his free time listening to the musical avant-garde and discussing the finer points of contemporary philosophical movements. Senior **Ian Nappier** hopes to study science and will be attending Brown University in the fall. Ian is a Wikipedian, spending much of his free time reading and editing Wikipedia. Ian enjoys all sorts of academic competition, from riddle contests to bouts in Super Smash Bros. Senior **Andrew Scacco** is traveling to the National Science Bowl® for the third time. He enjoys all fields of science and mathematics. He also enjoys ultimate Frisbee, tennis, juggling, and foosball. He competes in many bowls including Ocean Bowl and Knowledge Bowl, but has never competed in a cereal bowl. Senior **Joshua Suresh** is an aspiring scientist who enjoys playing chess, watching movies, and eating large burritos. He appreciates equally the bands Opeth and Streetlight Manifesto — deftly straddling the divide between metal and third-wave ska. A National Merit Finalist, he plans to study astrophysics and philosophy at MIT in the fall.

Learning is acquired by reading books; but the much more necessary learning, the knowledge of the world, is only to be acquired by reading man, and studying all the various editions of them.

Philip Dormer
Stanhope Chesterfield
(1694 – 1773)

**Southside High
School**
Fort Smith, Arkansas

University of Arkansas
– Fort Smith



Left to right, Front row: Jarid Kinder, Tracy Hall, Helen Chang,
Back row: Ben Cobb, Todd Spain, Josh Adams (Coach)

Team Coach: **Josh Adams** has taught math and coaches the academic teams at Southside High School for six years. With degrees in physics and secondary education from the University of Arkansas, Fayetteville, Josh enjoys his job. The three most important discoveries in his mind are: Kevlar, superconductivity, and rocket engines. He is supported by his wife, Amy, enjoys astronomy and golf, and loves to read.

Team Members: **Helen Chang**, a senior, is captain of the Science Bowl team, an officer of National Honor Society, a member of the Astronomy Club, a valuable flute player in the band, and president of BEST Robotics. Her interests include calculus, theoretical biochemistry, word etymology, neoclassical modernism, and street hockey. In her spare time, she partakes in charitable beauty pageants. She plans to attend UCLA to double major in biochemistry and Russian literature and minor in fashion. **Ben Cobb**, a junior, is the “first mate” of the Science Bowl team. He is the secretary/treasurer of CAPA, a political club, and the vice president of the Latin Club. He expects to minor in marine biology. He has ambitions to become a famous rap artist. He plays french horn in band, making All-Region and nearly making All-State this year. He enjoys reading Steven King novels and long walks on the beach. **Tracy Hall**, a senior, is the financial manager of the school paper and co-captain of the Color Guard. She is a member of National Honor Society, Quill and Scroll, French NHS, and Mu Alpha Theta. She can also be found dancing around or traveling to remote but exotic locations. **Jarid Kinder**, a junior, is involved in many activities besides Science Bowl; including, BEST Robotics, Policy Debate, Quiz Bowl, Forensics, KMO, Club Dynasty, Journalism, and JAPES (Junior AP English Student). This summer, Jarid will be a foreign exchange student attending Goetheschule School of the Fine Arts in Hanover, Germany. His passions are politics, law, and spending time with his close friends. Jarid’s future ambition is to become a District Attorney and then be appointed as a U.S. Federal Judge. Jarid is thrilled to represent his region this year. **Todd Spain**, a senior, will probably be seeking a degree in mechanical engineering at the University of Arkansas. This cellist is currently finishing his Eagle Project, which has been sluggishly progressing due to his alluring interests in camping, backpacking, Ultimate Frisbee, disc golf, and climbing. Todd likes blueberry pancakes, trees, chocolate, jam bands, autumn, the Department of Energy, his assistant coaches Jon and Nic, dogs that love cats, and twins.

If a man writes a book,
let him set down only
what he knows. I have
guesses enough of
my own.

Johann Wolfgang von
Goethe
(1749 – 1832)



Left to right: Emma Barrasso, George Vlastos (Coach), J. Stephen Pye, Eric Yeager, Dane Patey, Cabot Crump

Star Lane Center Casper, Wyoming

Rocky Mountain Oilfield Testing Center

Team Coach: **George Vlastos** graduated from Stanford University with a Bachelor's degree in English. Beginning his career as a substitute teacher, he was certified to teach Language Arts at the secondary level in 1997. For the past eight years, he has been teaching at Star Lane, an interdisciplinary integrated high school program. Teaching has led him further and further into the riches of the sciences: including working with students and community stakeholders in coordinated resource management plans, watershed issues, and wildlife thoroughfare conservation.

Team Members: **Emma Barrasso** is a junior who has participated in the Wyoming Science Olympiad and Science Bowl, is a member of the National Junior Honor Society, and is co-founder of a weekly Culinary Club. She is taking robotics engineering at Casper College in preparation for the regional robotics competition. She volunteers for the Jerry Lewis Labor Day Telethon. Emma plans to study engineering in college. She very much loves French history, sushi, a good game of Scrabble, and her Portuguese water dog, Eve. Junior **Cabot Crump's** favorite subjects include science, ceramics, and history, and he has also studied environmental issues at the Teton Science School. He has competed in Destination Imagination, Science Olympiad, and a district Young Authors competition. Cabot assisted in the Campaign to End AIDS tour through Casper, WY, and has worked to eliminate discrimination and harassment in local schools. He has also written a bill, seeked a legislative sponsor, and lobbied for the passing of a state law allowing 16-year-olds to be election judges. He plans to attend Reed College in Oregon where he will major in philosophy in hopes of becoming a professor. Sophomore **Dane Patey** progressed through the early years of schooling showing no signs of academic excellence, until the 5th grade, when he was accepted into an advanced math class. By 7th grade, he was in advanced science as well as showing talent in the arts. In junior high, Dane was recognized as the best artist of his class. Today, Dane has taken on the responsibilities of being the host and Grand Magistrate of the Fine Arts & Music Appreciation Society at Star Lane Center. Senior **J. Stephen Pye** shows a knack for languages (particularly French & Russian) though he has come to them only lately in his K-12 career. Stephen spends his time cooking and reading poetry with friends. He enjoys problem-solving and imparting his uncommon wisdom (such as "never pet a burning dog" and "gravity pulls on man and marshmallow alike"). Junior **Eric Yeager** is in the Chess Club, Culinary Club, and the Science Olympiad. A mere 18 months ago he was placed in an at-risk program with fears that he would not graduate from high school. Since then he has been nothing short of stellar within the realms of Academia: including a stint at the Teton Science School and participating in Summer of Action Research in Yellowstone. Eric enjoys dancing by impulse and has an impeccable ability to get others to dance with him. He plans on becoming a math or German teacher (his favorite subjects).

The winner of the hoop race will be the first to realize her dream, not society's dream, her own personal dream.

Barbara Bush
(1925 –)

**State College Area
High School**
State College,
Pennsylvania

National Energy
Technology Laboratory
– Pittsburgh



Left to right: Julie Gittings (Coach), Jason Ma, Ylaine Gerardin, Barry Liu, Galen Lynch, Francois Greer, Lilas Soukup (Science Bowl Coordinator)

Team Coach: **Julie Gittings** advises various academic teams at State High, where she is a teacher in the enrichment/gifted support program. She enjoys the Shakespeare Competition, the Poetry Out Loud contest, driving students around the country in the yellow school van and collecting money for the College Board's Advanced Placement Program. She is married with two grown daughters, one son-in-law, one cat, and one collie. Sometime in the next decade, she will retire from school to spend her dotage skiing slowly down ski slopes in the sunny southwestern Rocky Mountains.

Team Members: **Ylaine Gerardin** is a senior and iron-fisted dictator/captain of several teams, including Science Bowl. At school, she enjoys discussions in economics class and making Zen rock gardens in art history. Outside of school, she can often be found at a local dance studio, where she has been taking ballet classes for the past 10 years and works as a beginning pointe T.A. By this summer, Ylaine hopes to reach her goals of mastering fouette turns, finishing Friday crossword puzzles in the New York Times, and scraping together enough social studies credits to graduate. Junior **Francois Greer** is a second-year competitor on the Science Bowl team. He is a member of numerous clubs and extracurricular activities, including Chess Club, Student Government, Knowledge Masters, and Intramural basketball. He has played piano for six years and performs frequently at local recitals and competitions, placing second at the Ann Keller Young Soloist Competition last November. Francois enjoys playing tennis and plans to be a third year member of his high school team this spring. After graduating, he plans to attend college, although he is not yet certain of his field of specialization. **Barry Liu** is a junior. His hobbies include eating and sleeping. He enjoys listening to rock music, especially Guns 'N' Roses. Barry was born in a small town of five million people called Harbin, China. He is making a brave attempt to break his addiction to Diablo II and Age of Empires III through intense meditation and introspection. On occasion, he can be heard gently crooning (into a pencil microphone) on long van rides. Barry is also renowned for his hyped-up tackles during pickup football games. Senior **Galen Lynch** is a first-year team member on the Science Bowl team. He was born in Cali, Columbia and moved to State College at the age of three. Galen has played piano, violin, and is currently learning guitar. He enjoys mountain biking, hiking, rock climbing, listening to music, reading, making movies, and working on computers in his spare time. When he is not hanging out with friends, his Friday nights are spent watching "Battlestar Galactica." Galen currently plans on entering Penn State University next fall. **Jason Ma**, a senior, is a first-year member of the Science Bowl team. In addition to academics, he enjoys playing viola and is a member of the school's Advanced Strings Ensemble. He is also captain of the Intramural basketball team. Additionally, he takes pleasure in reading, especially novels by Isaac Asimov and other science fiction. In his spare time, he can usually be found listening to music or reading magazines. He also greatly enjoys traveling, having been to Italy, Britain, and China.

The poem is a little myth of man's capacity of making life meaningful. And in the end, the poem is not a thing we see — it is, rather, a light by which we may see — and what we see is life.

Robert Penn Warren
(1905 – 1989)



Left to right: Thomas Meyer (CSU Coordinator), Kristy Wen, Miles Muzio, Casey Stark, Tahira Mohammed (Coach), Katherine Liu, Justin Koh, Neil Mathur, Stacy Baehr (Coach), Ramon Hendrix

Stockdale High School Bakersfield, California

California State University

Team Coach: **Tahira Mohammed** earned a B.S. with honors in chemistry and biochemistry at the University of the West Indies. She has been teaching for 22 years, the first 13 in her homeland, the Caribbean island of Trinidad. She has taught Advanced Chemistry and Biology and currently teaches Honors Chemistry and Integrated Science. She enjoys working with students, especially in preparation for Science Bowl. Tahira is also learning to love geology and now accepts that geologists have no faults. Her hobbies include cooking and being a devoted soccer mom. She thinks the human genome project, nuclear power, and DNA are three important scientific discoveries.

Team Members: **Justin Koh** is a sophomore who loves chemistry and math. Justin is a pivotal member of his Academic Decathlon Team winning this year's competition for the first time in Stockdale's history. He scored higher than anyone else in math. Justin is excited to be a part of Science Bowl and is looking forward to visiting Washington, DC. His dream is to study hard and beat Mrs. Mohammed in the chemistry grudge match scheduled to take place in May. Go Mustangs! **Katherine Liu** is currently a junior. She loves biology in general; most specifically, she enjoys biotechnology and microbiology. She has been accepted into USC's Resident Honors Program, although she is not sure if she is going yet. Outside of school, she tends to spend her time reading science fiction and fantasy, or you may find her in art class, at band practice, or knocking the stuffing out of a punching bag at a Tae Kwon Do studio. Her other interests include learning foreign languages, hanging out with her fellow nerds, avoiding the fury of her own nunchucks, and being a Crazian (crazy Asian). **Neil Mathur** is a junior who laughs maniacally at his own jokes all too frequently. He is interested in mythology and would like to conduct research in immunology. Neil is an avid fencer (a nerd with a sword?) and is a Boy Scout. He serves as the president of his school's Philosophy and Ethics Club. Neil is also a firm supporter of orange chicken. Junior **Casey Stark** may have a bad reputation of being the totalitarian leader of his team, but he is simply an unassuming, physics-loving nerd. In his spare time, he enjoys reading actual literature (or "those fake stories" as his chemistry teacher loves to put it) or a few books on theoretical physics. He is a passionate supporter of string theory (superstring theory, M-theory, whatever you will) and would love nothing more than to have a good chat over lunch with Brian Greene and/or Michio Kaku. Casey was recently accepted to USC's Resident Honors Program, but has not yet decided if he will attend this fall or stick it out one more year in the "cell." Either way, he plans to get his Doctorate in physics and pursue a career working on the unified field theory problem.

If I were not a physicist, I would probably be a musician. I often think in music. I live my daydreams in music. I see my life in terms of music.

Albert Einstein
(1879 – 1955)

The Harker School

San Jose, California

Stanford Linear
Accelerator Center



Left to right: Jennifer Owen (Coach), Tatsunori Hashimoto, Arkajit Dey, Siddharth Chandrasekhar, Yi Sun, Hann-Shuin Yew, Martin L. Perl (Nobel Laureate)

Team Coach: **Jennifer Owen** was born in England. She attended the University of Manchester where she obtained a B.S. in chemistry and a Ph.D. in environmental geochemistry. She also carried out postdoctoral research and teaching at the University of Nottingham. She has taught on three continents — in Kisii, Kenya; London, England; and she currently teaches in San Jose, California.

Team Members: **Siddharth Chandrasekhar** is a junior. He enjoys all of his math and science classes at school, which currently include AP Biology, AP Computer Science, and AP Calculus C/Multivariate Calculus. As for extracurricular activities, he is captain of the cross country team and part of the JETS team, Science Bowl, Quiz Bowl, Radio Club, and Chemistry Club at Harker. He volunteers at the San Jose Tech Museum, and has amassed over 100 hours there. He is currently undecided about his college status. **Arkajit Dey** is a junior whose favorite subjects in school are math, physics, and computer science. He participates in various math and science competitions such as the JETS contest, BAMO, AIME, and ARML. Because of a John Hopkins Talent Search award he earned for scoring high on the SAT prior to age 13, he has been able to pursue his math and computer science interests by taking university courses; he has accumulated 45 units of credit so far. As a member of the Quiz Bowl team, he competes in the BAAL contests and appears on the TV show Quiz Kids. He is also the treasurer and a programmer on the Robotics team and has been a teaching assistant for a robotics course at UC Berkeley. Junior **Tatsunori Hashimoto** was originally born in Pennsylvania, moved to Japan when he was three, and went through a total of seven years of Japanese public education. Afterwards, he came to California and the Harker School. He enjoys physics and engineering, especially independent learning, and he loves to do electronics in his free time. He is also the head of the mechanical subteam of Harker's Robotics team. **Yi Sun** is a senior. He is the captain of the Quiz Bowl team and competes in the Math and Science Olympiads, winning a gold medal at the 2004 International Physics Olympiad. Yi was also a Finalist in the 2006 Intel Science Talent Search based upon a research project in mathematics. His favorite subjects are math and the physical sciences, and Yi hopes to study these fields in college. In his spare time, he likes to read, listen to music, and play computer games. Besides Science Bowl, **Hann-Shuin Yew**, a senior, is involved in Quiz Bowl and NHS (for which she currently spearheads an Autism Awareness focus) to FBLA and JETS among others. Outside of school, she works on a bio-informatics project at Stanford she affectionately calls "GLoM," not least for the time it literally "gloms" from her life. Hann took the USA and Canadian Biology Olympiads unofficially last year and scored in the top 20 for both, a factor which may have triggered her unexpected acceptance to the international Research Science Institute last summer. In her spare time, she writes the occasional poem, for which she has received national and international recognition.

After silence, that
which comes nearest
to expressing the
inexpressible is music.

Aldous Huxley
(1894 – 1963)



Left to right: William Pickering, Ben Jones, Paul Varnell, David Tao, Neal Dexter (Coach)

The McCallie School Chattanooga, Tennessee

Oak Ridge Institute for
Science & Education

Team Coach: **E. Neal Dexter** was born in California and raised in Utah, where he took advantage of the state's hiking, camping, skiing, and hunting resources. He attended the University of Tennessee, Knoxville, and then Eastern Kentucky University, earning Bachelor's and Master's degrees in physics, respectively. His Master's thesis dealt with nuclear spallation and fragmentation. For a year, he worked as an engineer for a testing laboratory in Lexington, KY, where he discovered that engineering, though challenging and high-paying, did not completely satisfy his abilities to apply his knowledge of physics. In 1998, Dexter moved to Chattanooga, TN to teach high school physics at The McCallie School. He also works through a National Science Foundation grant as a research consultant for a Chattanooga company, experimenting with their polymer-based nanofibers.

Team Members: **Ben Jones**, a junior, has two older brothers and has lived in Chattanooga TN for his entire life. He has always enjoyed reading and thinking on science and has been a regular reader of Scientific American since he was 10. Most likely, he will major in chemistry and physics in college and minor in math. He hopes to make an impact in either or both fields when he enters the public sector. Junior **William Pickering** is 17 years old and has lived in the Chattanooga area all of his life. His primary scholastic interest is mathematics, especially number theory and combinatorics. Interests outside of school include tennis, Habitat for Humanity, and racquetball. In the future, he hopes to pursue a career in medicine. **David Tao**, a junior, is a native of Louisville, KY, although he has moved around more than he would like to confess. After a stint as a self-proclaimed "junior loafer," he picked up the pace regarding his lackluster academic lifestyle. An Eagle Scout, two-time Prudential Spirit of Community award winner, fairly good student, and all-around great guy, David hopes to one day own a vast sum of money. He would just like to point out that, in case he decides to run for public office, he totally supports human control over robots and not vice versa. Senior **Paul Varnell** has attended The McCallie School for two years as a resident student. Paul is ready to move on to other challenges — something in engineering. Although he has not quite settled on what it is yet, Paul plans to have fun doing it.

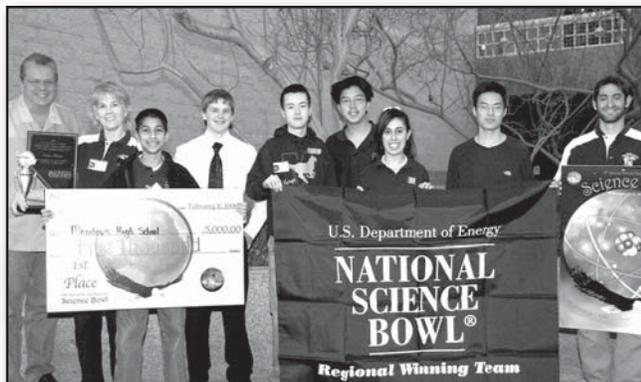
An intellectual snob is someone who can listen to the William Tell Overture and not think of The Lone Ranger.

Dan Rather
(1931 –)

The Meadows School

Las Vegas, Nevada

National Nuclear Security
Administration – Nevada
Operations Office



Left to right: Darwin Morgan (NNSA), Laura Glismann (Coach), Vishnu Halthore, Tyler Fitzgerald, Kevin Kowalski, Kenny Chen, Carmel Moazez, David Kim, and Jeff Clouse (Coach)

Team Coach: **Laura Glismann** is a graduate of the University of Colorado for a B.A. and of Western State College for an M.A. With a major in biology and minor in mathematics, she enjoys coaching the Science Bowl team for the exposure to the many different science disciplines. Being a native of Colorado, a decade of teaching in the Pacific, and traveling in Indonesia and Asia have afforded her an opportunity to experience many different ecosystems; a great opportunity for a biologist. Atomic theory, cell theory, and evolutionary theory are the three significant developments in science that have lead to some of the greatest paradigm shifts in our species' history.

Team Members: Sophomore **Kenny Chen** has attended The Meadows School for 11 years. He plays the piano and cello and maintains a prominent school club. His future goals are undecided. **Tyler Fitzgerald**, a freshman, has attended The Meadows School since kindergarten. He enjoys math, science, football, swimming, and acting. He is happy to be at the National Science Bowl® because he will be missing three days of swimming practice! Tyler is concentrating on astronomy, cosmology, and physics for the competition. **Vishnu Halthore** is a freshman. This is his first year at The Meadows School and he fell into the Science Bowl one day when he walked into the wrong room. His favorite science subjects are biology, earth science, and astronomy. As a freshman in Algebra II Trig, he is also posed to be in Science Bowl for the next three years of competition. Vishnu loves tennis and golf. He does not know what his chosen career field will be, but thinks it will probably be in a scientific discipline. Sophomore **Kevin Kowalski**, though somewhat lacking in expository aptitude, would like to compensate for his deficiency with the use of sizable words. Kevin thoroughly enjoys a veritable cornucopia of left-brain activities, among them mathematics, science, and computer programming. Although the absence of any political acumen or charisma in Kevin frustrates any attempt of his at holding office, he has competed in the USAMO and he has attended MOP 2005. Outside of his varied academic pursuits, Kevin takes classes in the martial arts and can draw somewhat melodious sound from a piano. Kevin has not thought of a future occupation. **Carmel Moazez**, a sophomore, is a dancer, pianist, and brown belt in Karate. She wants to become a doctor and loves the field of science. Her area of focus for Science Bowl is human anatomy and physiology. She hopes someday to raise a family and contribute to the vast knowledge of the scientific community. She loves her religion, Baha'i, and loves serving the community.

If you develop an ear for sounds that are musical it is like developing an ego. You begin to refuse sounds that are not musical and that way cut yourself off from a good deal of experience.

John Cage
(1912 – 1992)



Left to right: Sharon Webb (Coach), Charlotte Seid, Daniel Schafer, Lisa Marrone, Neel Kotra, Logan Kearsley, Not pictured: Dale Hamby (Coach)

Thomas Jefferson High School for Science and Technology Alexandria, Virginia

Thomas Jefferson National Accelerator Facility

Team Coaches: **Dale Hamby**, a graduate of the U.S. Military Academy and Harvard Business School, retired from the U.S. Army in 1993. After working for several years in the commercial satellite imagery business he began teaching high school physics in Jacksonville, FL. He taught for DoD schools in Naples, Italy, and is currently a technology teacher at TJHSST. Dale was also a finalist in NASA's 2004 Educator Astronaut selection process. **Sharon Webb** teaches mathematics at TJHSST. She graduated from the University of Virginia in Charlottesville with a B.A. in mathematics and an M. Ed. in mathematics education. She was a semifinalist in the NASA selection of educator astronauts, and she participates in NEAT (Network of Educator Astronaut Teachers). Mrs. Webb sponsors the Fellowship of Christian Athletes and Science Bowl clubs at TJ. Her hobbies include skiing, travel, and music.

Team Members: Junior **Logan Kearsley** enjoys most things about school except history, English, and doing work. He is an avid reader of science fiction, science fact, and fantasy, whose monthly intake can properly be measured in stack-inches of books when not impaired by schoolwork. He also enjoys writing science fiction, playing with LEGOs, and keeping up with the latest news in robotics and computer technology, biology, and astronomy. This is senior **Neel Kotra's** first year participating in Science Bowl. He is active on the Quiz Bowl circuit, and is captain for the Academic Team. He also participates in Math Team. He plans to attend a college next year and major in either chemical or mechanical engineering, and maybe math. In his free time, he enjoys playing Ultimate Frisbee, and if anyone wants to start a game, count him in. **Lisa Marrone**, a senior, is returning for her third year on the Science Bowl team. Her favorites subjects are biology, chemistry, and math. Lisa is president of Tomorrow's Women in Science and Technology and Biotechnology Club, and is a three-year Varsity Math Team letterer. She is a Siemens Westinghouse Regional Semifinalist and an Intel Science Talent Search Semifinalist, and has won the Greater Washington Junior Science and Humanities Symposium. In her spare time, she plays violin and tennis. Lisa intends to study biology and economics at Yale University next year. Senior **Daniel Schafer** is participating in Science Bowl for the first time this year, although he has been active in Quiz Bowl and Math Team for the past two years. He is currently serving as treasurer of the Math Team, and as the webmaster and assistant tournament director of the Quiz Bowl team. He is a two-time qualifier for the U.S.A. Mathematical Olympiad, and plans to pursue a double major in mathematics and computer science in college. **Charlotte Seid**, a senior, is a returning Science Bowl participant whose favorite subjects include biology, chemistry, and geoscience. She is the president of the Academic Team, a U.S.A. Biology Olympiad finalist, and a mentorship participant at the Virginia Institute of Marine Science. In the past year, she has volunteered as a stream monitor and at the Smithsonian Institution's Department of Entomology. In her infrequent spare time, she enjoys drawing, photography and writing.

No opera plot can be sensible, for people do not sing when they are feeling sensible.

W. H. Auden
(1907 – 1973)

YOU CAN CHANGE THE WORLD.

2006 National Science Bowl®

**Thomas S. Wootton
High School**
Rockville, Maryland

U.S. Department of Energy
– Headquarters



Left to right: Nancy Peth (Coach), David Farkas, Tessa Carducci, David Chen, John Hooff, Andrew Shie

Team Coach: **Nancy Peth** received her B.S. in biology from Loyola College followed by an M.A. in statistics from Pennsylvania State University. Nancy came to teaching after two other careers — statistician and full-time mom.

Team Members: Senior **Tessa Carducci** loves science, snowboarding, photography, pottery, dancing, paintball, and eating. In addition to Science Bowl, Tessa is president of her school's molecular biology program DNAcademy, participates in many other science-related activities, and is a member of her school's Political Forum Club. She currently interns in an honors chemistry class at her school, where she lectures and amazes the students with her Bill Nye-esque demonstrations. Tessa is also a published author in the field of biochemistry. She will be attending Duke University this fall where she plans to major in chemistry and political science. Senior **David Chen** really, really likes, among other things, eating pop tarts and sushi, being ridiculously good-looking, and reading manga comics about pirates and ninjas (all complete with super-powers, of course). He claims that cooking is his forte, and, while that will remain the official party line, he can in reality only cook fried rice. David enjoys learning nearly everything, except those things that force him to think (it hurts too much). David plans to attend college next year. **David Farkas**, a senior, participates in the Science Bowl team, Math Team, Robotics Club, and swim team. Outside of school, David enjoys passing time with friends, playing World of Warcraft, and skiing. During his undergraduate study, David plans on focusing on neuroscience, then going on to medical school on his way to becoming a surgeon. David has already received his letter of acceptance from the University of Rochester, and is waiting to hear back from Harvard, Dartmouth, Yale, and JHU. Senior **John Hooff** focuses on earth science and physics on the Science Bowl team. He wishes to major in mechanical or aerospace engineering, and interns at NASA Goddard Space Flight Center. In addition to science, he is interested in legal issues and is captain of the Debate team. In addition to participating in Science Bowl, John has also captained the Ocean Bowl and Envirothon Science Teams. John maintains a strong interest in economic theory, and is a proponent of the Austrian school. His interests outside of school include automobile racing, aviation, and paintball. Junior **Andrew Shie**, the only Wootton team member not concerned with transition into college, has plunged into the overachieving, extremist junior lifestyle. He participates in Chemathon, U.S.A. Biology Olympiad, and (Science) National Honors Society, just to name a few. Most noteworthy is Andrew's servitude as vice president under the sovereignty of fellow team member Tessa in DNAcademy. As a violist, Andrew has earned entrance to All-State orchestras multiple times. A biology fanatic, Andrew routinely helps in the birthing processes of pregnant snow leopards.

When all is said and done, it's not the shots that won the championship that you remember, but the friendships you made along the way.

Unknown



Timberline High School Boise, Idaho

Idaho National Laboratory

Left to right: Harold Williford, Kyle Stegerwald, Eric Johnson, Greg Rancourt, Josh Archibald-Seiffer, Not pictured: Carol Foss (Coach)

Team Coach: **Carol Foss** teaches Chemistry and AP Chemistry and has been teaching for 19 years. Carol graduated from the University of Idaho with a degree in microbiology. After doing immunological research for two years, she attended Weber State College (now University) to obtain teaching credentials and began her teaching career in Juneau, AK, teaching biology. Carol is married and has three grown children. She and her husband, Jeff, enjoy taking their cataraft on Idaho's many whitewater rivers and also enjoy hiking, camping, and fishing.

Team Members: **Josh Archibald-Seiffer** is a senior. He has been involved in INL Scholastic Tournament for the last two years. He is planning to double-major in piano performance and music composition. Senior **Eric Johnson** is the youngest of three brothers. When he is not doing school work, he is hanging out with friends or golfing. While he does not care to admit it, Eric is interested in the sciences and hopes to pursue a degree in biochemistry at Tulane, and possibly a medical career. **Greg Rancourt**, a junior, has always been fascinated with science fiction and space, so he is working to make himself a strong candidate for an aerospace engineering degree. With what free time that he has, he enjoys playing tennis and snowboarding, and he is taking a night class on ceramics. His life has been hectic but he always wants to do more. "There is just not enough hours in a day!" There is much that he wants to try and he hopes that he can transport himself to the places that allow him those opportunities. Senior **Kyle Stegerwald** was born in Albany, NY, in a raging blizzard. Since then, he has moved all over the U.S., sometimes to places with less inclement weather. He enjoys skiing, reading, lying around the house, and long walks on the beach that usually ends in the construction of a sand castle. He plans to major in computer science or history at an institution of higher learning. **Harold Williford** is a senior. As of this writing, his college plans are still uncertain, but he is fairly sure that he will major in biology or international law. Currently, he is very active in policy debate, as well as many academic competitions. This year, he started playing tennis and is very active in promoting the French language at Timberline.

A gold medal is a wonderful thing, but if you're not enough without it, you'll never be enough with it.

Irv Blitzer
(John Candy — "Cool Runnings")

2006 National Science Bowl®

Tokay High School
Lodi, California

Modesto Irrigation District



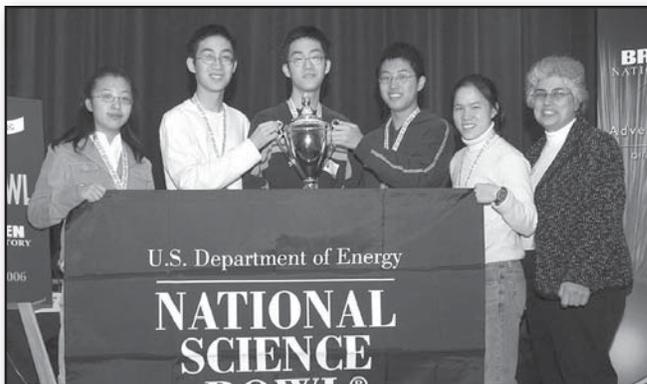
Left to right: Eberhard Barba, Quay Stearns, Anne Heberle, Toren Stearns, Roby Hemphill, Not pictured: Susan Heberle (Coach)

Team Coach: **Susan Heberle** is a science teacher at Tokay High School. Susan attended Sacramento State University with a major in biology and minor in chemistry. She enjoyed substitute teaching after graduation and returned to the University of the Pacific to get her teaching credential. She is a Girl Scout leader and active teacher on many district committees. Lorna Hemphill attended Santa Rosa Junior College and University of California, Davis, earning a biochemistry degree. She worked as a chemist/microbiologist for Robert Mondavi Winery before becoming a full-time mom. Lorna currently substitute teaches all grades/subjects. She is active in Rebekah Lodge and is an avid cat lover.

Team Members: **Eberhard Barba** is a 15-year-old junior and is active in Science Olympiad, Science Bowl, play productions, Japanese Club, Chess Club, and helps out as a math tutor after school. Eberhard is interested in music theory and the arts. He is undecided at this time about which college he will attend and what his major will be. Sophomore **Anne Heberle** is 16 years old. Besides participating in Science Bowl, she is active in Science Olympiad, water polo, swimming, and Girl Scouts. She recently played Varsity water polo and placed First Team All League last year, and she swims on the Varsity team. As an experienced swimmer, she has dedicated over 40 hours of her time in the summer to help coach a swim team for children ages 7 and 8 years old. She is active in Girl Scouts, ranking as a Senior Cadette and Patrol Leader for her Troop. Science, anatomy, and physiology are the most interesting to her. She wishes to attend a college that will improve her education as she plans to enter the medical field as a cardiologist. **Roby Hemphill** is a 16-year-old junior with biology as his favorite subject. He is active as a member of the IOOF in Stockton Junior Lodge. He is a Past Chief Ruler and Past Grand Ruler for the state of California, and is currently working on levels for the honors program of the Junior Lodge. Roby is the Ways and Means vice president for the Academic Club. He participates with Academic Decathlon, Science Olympiad, and Science Bowl. In the community, Roby volunteers in park clean-ups, helping at the food bank, caroling at a senior citizen center, and recently fund raising for cancer research and a village in Cambodia. He plans to further his education at UC Davis, majoring in engineering. Freshman **Quay Stearns** is new to Science Bowl this year. He is listening and learning and has been a dependable alternate for the team. Quay is active in Spanish, Japanese, Science, Chess, Key, CSF, and Academic Clubs. He plays the violin and competitive tennis. Quay volunteers at the local library. **Toren Stearns** is a senior with a passion for science and learning. Science Bowl, Academic Decathlon, Science Olympiad, Academic Club, and Science Club keep him busy. He plays the piano and tennis for fun and relaxation. After graduation, he plans to attend University of California, Los Angeles with a major in pre-medicine, then attend Stanford University Medical School to become a cardiologist.

Individual glory is insignificant when compared to achieving victory as a team.

Dorothy Gay (Dot)
Richardson



Left to right: Rachel Yu, Stephen Ko, Albert Ko, Harley Zhang, Jenny Wang, Kathleen Rocklein (Coach)

Ward Melville High School

East Setauket, New York

Brookhaven National Laboratory

Team Coach: **Kathleen Rocklein** is a graduate of Cabrini College in Radnor, PA, receiving a B.S. degree in chemistry. She achieved her Master's degree at SUNY Stony Brook, NY. She was fortunate to obtain her teaching position at Ward Melville High School right after graduation from college. Although she always wanted to be a teacher, visiting the FBI laboratory during a high school field trip influenced her decision to major in chemistry at college. Her hobbies are reading and attending sports and musical functions that her three children participate in at the schools they attend.

Team Members: Senior **Albert Ko** is president of both the Math Team and National Honor Society and is part of the Science Olympiad and Academic Varsity teams. He also plays the violin in the Ward Melville Chamber Orchestra and participates in the Asian Culture Club. Over the summer, Albert spent some time performing research regarding triangulated surfaces at Stony Brook University as an Intel STS project. In his spare time, Albert likes to play ping pong, tennis, cards, DOTA, and Dance Dance Revolution. **Stephen Ko** is an 18-year-old senior who participates in many activities including Math Team, Science Olympiad, Science Bowl, and Academic Team. As a student, he has consistently earned A+s in his math and science classes and has also won several awards in the math and science fields, including multiple first place county math awards and being recognized as an Intel Semifinalist. In his free time, Stephen likes to make a fool of himself by playing Dance Dance Revolution and also enjoys playing numerous videos. He hopes his experience at the National Science Bowl® Competition will be a good one. **Jenny Wang** is a senior. Her favorite classes this year are math and chemistry. While she also participates in Math and Academic Team competitions, she spends most of her afternoons playing basketball or running. In her free time, she enjoys reading books and watching entirely too much TV. She plans on attending Harvard College next year and is leaning toward a major in biochemistry. Junior **Ruihui (Rachel) Yu** has traveled to many parts of the world, including Australia and Sweden, before coming to the United States a little over five years ago. At school, her favorite subjects have always been the sciences, from biology in 9th grade to physics in her junior year. However, she prefers chemistry over the other sciences so far, in part because she finds exploding reactions more intriguing than watching magnetic cars ambling down a metal track. In her spare time, Rachel enjoys reading fiction books, mostly ones not related at all to science. **Harley Zhang**, a senior, has been on Ward Melville's Science Bowl team for two years. In addition, he is also a member of the school's Science Olympiad team, Math Team, and Academic Team. He was named an Intel Science Talent Search (STS) Finalist in 2006. He is undecided as to where he will attend college in the fall.

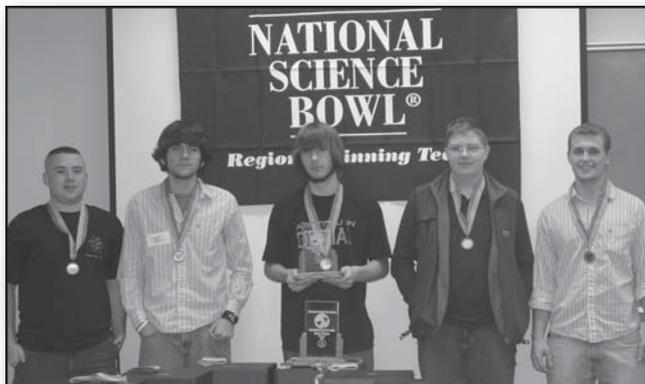
It may sound strange, but many champions are made champions by setbacks.

Bob Richards
(1926 –)

Warner High School

Warner, Oklahoma

National Energy
Technology Laboratory
– Tulsa



Left to right: Daniel LaBounty, Justin Cockrell, Tony Hayes, Stephen Ashmore, Morton Baker, Not pictured: Scott Vincent (Coach)

Team Coach: **Scott Vincent** is in his fifth year teaching advanced science at Warner. He entered the teaching profession after a 15-year career as an environmental engineer. He holds B.S. degrees in biology and chemistry from Oklahoma Baptist University and a M.Ed. from Northeastern Oklahoma. He teaches his students that the French Enlightenment is the most important era of scientific discovery; from Buffon's publications correlating the fossil record to modern animals, to Lavoisier's discovery of oxygen and gas quantification, to Pasteur's microbiology work.

Team Members: Sophomore **Stephen Ashmore** is an interesting combination of intellect and imagination; he shows a profound interest in philosophy that balances his interest in computer science. He also loves his chemistry and English classes. He is parliamentarian for his class, and holds the combined office of secretary, webmaster, and treasurer for his local Science Club. He is a member of the National Honor Society. He plans to go to college in the field of computer science, and possibly minor in philosophy. Senior **Morton Baker** is an academically minded introvert with extroverted tendencies. He is the president of his class, Student Council, and FISH Club. His favorite classes are AP English and AP Chemistry II. He is the salutatorian of his class. He is very involved at Warner First Baptist Church, and is the 7th – 9th grade Sunday school teacher, a Vision and Strategy Team member, a Youth Singer, and Hand Bell Choir member. His future plans are to become a professor of philosophy or vocational minister. **Justin Cockrell**, a junior, is the kind of student that never stops learning; whether it is in school, studying calculus and physics or outside of school, as he progresses in his walk with God and his growth as a musician. As president of his class, the head of the fundraising committee for his church's leadership team, and chief contact and organizer for his band, 7DaysTilMidnight, Justin believes he represents a good moral and intellectual role model. He would like to attend MIT or Caltech. Junior **Tony Hayes** excels in his school work and extracurricular activities. His favorite subjects are biology, physics, and music. He is captain of the Academic Team and the Science Team, and he is the junior class vice president. He is an active member of the Keefeton Freewill Baptist Church, leading praise and worship and congregational hymns with his guitar. Robert plans to study either science or music after high school, hoping to incorporate both in his life after school. **Daniel LaBounty**, a senior, is a "hands-on" student who prefers lab work to theory. His favorite subjects are chemistry and any math classes. He is the president of Science Club, vice president of his senior class and FISH Club, and the reporter for Student Council and National Honor Society. He is one of three co-salutatorians of his class. Daniel has been involved in Civil Air Patrol for five years, has achieved the Ira Eaker Award, and will be taking the Spaatz examination in early April. Daniel enlisted in the Marine Corps, where he will likely pursue an engineering degree.

An inventor is a person who makes an ingenious arrangement of wheels, levers and springs, and believes it civilization.

Ambrose Bierce
(1842 – 1914)



Left to right: Colin Corbett, Ari Allyn-Feuer, Erik Werstler, Carlin Kersch, Bill Wilson (Coach), Adam Anderson

Woodrow Wilson High School

Portland, Oregon

Bonneville Power Administration

Team Coach: A chemist from the University of Wisconsin-Madison, **Bill Wilson** worked in the healthcare and asphalt industries prior to starting his teaching career. Drawing upon a strong desire to be a positive influence in the lives of young adults, he has taught math, physical science and chemistry. Some important scientific discoveries include the semiconductor, continued development of renewable resources and the Twinkie. His hobbies include touring the Pacific Northwest in his Westfalia campervan with his wife and son as well as home improvement projects.

Team Members: **Ari Allyn-Feuer**, a junior, is a longtime nerd who recently became dangerously close to being well-rounded. Desperate to avoid this sorry fate, he is hard at work scheduling ever more heavily weighted science and math schedules for himself, and programs for USFIRST Robotics team 753 (The High Desert Droids). Despite this, he has found himself inducted into classes in fringe subjects like literature and economics, and even into extracurricular activities including, shockingly, a Badminton Club. Senior **Adam Anderson** likes math and physics. In his spare time, he takes physics classes at Lewis and Clark College and reads math books. He has done research in the taboo field of cold fusion, as well as orbital mechanics. When he is not thinking about the sciences, he likes to play jazz trumpet, debate, give persuasive speeches, talk about economics, and ski. Outside of science, he has won national awards in writing, served for three years as class president, and won a grant from the Oregon Council for the Humanities to research Soviet economic policy, among other accomplishments. **Colin Corbett** is a senior. **Carlin Kersch** is a junior. He is 17 years old and aside from being on the Science Bowl team, he is on the Chess Team, runs cross country and track, and is an avid bike rider. He would have biked to nationals, but Oregon is pretty far away from Washington, DC. This will be his second year competing with his team at Nationals, and hopefully not his last. He hopes to go to a decent college, though exactly which one, nobody yet knows. **Erik Werstler** is a junior and his favorite subject is science. He is on the JV lacrosse team. Over the summer, Erik participated in the ASE (apprenticeships in science and engineering), working at Bonneville Power Administration in the Chemistry department. Erik plans to attend college (but does not know where yet), with a possible major in chemistry. He is in the band and, of course, participates in the Science Bowl.

Passion, not pedigree,
will win in the end.

Jon Bon Jovi
(1962 –)

